

Adjunct Professor of Computer Science (Luddy School
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Biographical Sketch and Career Objectives

Dr. Craig A. Stewart has been for decades a leading innovator and strategist in advanced computing and cyberinfrastructure for research and development. The peak of his professional career was from 2005 through 2020, leading the Indiana University Pervasive Technology Institute. IU PTI is Indiana University's flagship organization for research and development in cyberinfrastructure, informatics, and computer science in support of science and engineering research, artistic creativity, and cybersecurity. (Stewart's group coined the now standard definition of cyberinfrastructure – see hdl.handle.net/2022/21589).

Stewart has been involved in research computing since writing Fortran-based statistical applications while completing his Ph.D. in Biology in the 1980s. From 1996 to 2017, Stewart was responsible for all aspects of IU's supercomputer and research software services and operations. From 2005 to 2017, Stewart was Associate Dean for Research Technologies and, as such, was responsible for all supercomputers, research data storage systems, and visualization systems. These responsibilities included supercomputers ranked among the top 25 fastest in the world and state-of-the-art Virtual Reality systems such as CAVEs and BARCO VR Theatres. Stewart's group created the software needed to build the first-ever distributed installation of the High Performance Storage System (HPSS), and he was PI on the NSF grant that created the Lustre-based Data Capacitor. Stewart oversaw the implementation of the first 1 TeraFLOPS supercomputer and the first 1 PetaFLOPS supercomputer owned and funded by a single university (2001 & 2013, respectively). Stewart was the primary writer and/or PI of the grants that enabled IU to play a major role in the NSF-funded national cyberinfrastructure systems starting in 2003 with the TeraGrid and then up to today as part of XSEDE. Stewart was the founding PI of Jetstream, the first cloud computing system funded by the National Science Foundation for use by the science and engineering community of the US. He has been the principal investigator for, primary writer of, or major contributor to grant proposals bringing more than \$250M in funding to Indiana University and has supervised groups bringing in another more than \$100M in funding.

Research in life sciences and medicine have been particular areas of focus throughout Stewart's career. Starting in 2007 Stewart set a goal of having all of IU's central research IT systems aligned with HIPAA (compute and storage), a goal that was accomplished in 2009. IU was the first US (nonclassified) supercomputer to do this. Security of IU's research systems was most recently upgraded to compliance with FISMA Low. Stewart was also the initial Principal Investigator on the

NSF grant that created the National Center for Genome Analysis Support, a resource serving genomic scientists throughout the US from 2011 to 2021.

Stewart has been on staff and on several committees for the National Science Foundation, as well as on advisory committees and in leadership of a number of other organizations related to advanced computing. Stewart is a past chair of the Coalition for Advanced Scientific Computation and in this role testified before the House Science and Technology Committee. Through his involvement at IU, in CASC, at the NSF, and in national-scale cyberinfrastructure projects, Stewart has been involved in forging productive approaches to governance, oversight, and analysis of cyberinfrastructure systems.

In addition to his work at IU and in the USA generally, Stewart has been a visiting faculty member in Computer Science at the Universität Stuttgart and a Fulbright Senior Scholar at the Technische Universität Dresden.

Stewart retired from full time work at IU in October of 2020, but remains active in research and in work as a consultant.

Citizenship

US

Education

Indiana University (Bloomington, IN)	Ph.D. in Ecology and Evolutionary Biology	1988
Wittenberg University (Springfield, OH)	B.A. in Mathematics and Biology, <i>magna cum laude</i>	1981

Current Appointments

2020-	Visiting Research Assistant, Department of Biology, Indiana University
2008-	Adjunct Professor, Luddy School of Informatics, Computing, and Engineering, Indiana University
2003-	Adjunct Professor, Department of Medical and Molecular Genetics, Indiana University School of Medicine

Past Appointments

2020-2023	ROI Project Leader, National Center for Supercomputing Applications, University of Illinois Urbana-Champaign
2020-2021	Fellow, Pervasive Technology Institute, Indiana University
2008-2020	Executive Director, Pervasive Technology Institute, Indiana University <ul style="list-style-type: none">• Oversaw establishment of PTI as a university-wide, sustainable research & development center funded almost exclusively by extramural grant awards (80-100 people funded on grant monies)• Oversaw addition of two new centers and two new labs as part of PTI• Enabled successful transition of PTI to a new Executive Director

- 2003-2020 Adjunct Professor, Department of Biology, Indiana University
- 2005-2018 Associate Dean, Research Technologies. Key accomplishments:
- PI of Jetstream, the first production cloud system for scientific research funded by the NSF
 - Oversaw implementation of first 1 PetaFLOPS Supercomputer purchased and owned for a single university.
 - Responsible for implementation of HIPAA alignment and FISMA Low compliance for all central IU research systems
- 2005-2012 Information Architect; Co-Director, Center for Computational Cytomics; Indiana METACyt Initiative, Indiana University. Co-led Center for Computational Cytomics and organized overall cyberinfrastructure strategy for METACyt.
- April 2007 Fulbright Senior Scholar, Technische Universität Dresden, Dresden, Germany. Gave a series of well attended seminars on bioinformatics and initiated collaborative projects that resulted in several publications.
- 2005-2008 Chief Operating Officer, Pervasive Technology Labs. Led the successful completion of the Lilly Endowment Award to IU in support of the Pervasive Technology Labs, and the transformation of the Pervasive Technology Labs into the Pervasive Technology Institute.
- Summer 2003 Visiting faculty member and researcher, High Performance Computing Center (HLRS), University of Stuttgart, Stuttgart, Germany. Taught introduction to computational biology in the Computer Science Department (the first ever offering of this topic at the University of Stuttgart). Engaged in research and development in computational biology grid projects with HLRS researchers.
- 2003-2005 Special Assistant for the Life Sciences, Office of the Vice President for Information Technology/Research, Indiana University. Led completion of a strategic plan for life sciences research at IU.
- 1999-2005 Director, Indiana Genomics Initiative Information Technology Core, Indiana University. Established HIPAA alignment as the default status of all IU advanced cyberinfrastructure (supercomputers, clusters, disk storage, tape storage).
- 1997-2005 Director for Research and Academic Computing (Computation), Indiana University. As Director of Research and Academic Computing, Stewart was responsible for the following accomplishments:
- Established the National Center for Genome Analysis Support, a national resource for bioinformatics services and consulting.
 - Led Creation of the AVIDD (Analysis and Visualization of Instrument-Driven Data) cluster, the first distributed Linux cluster to achieve more than 1 TeraFLOPS on the Linpack Benchmark. Funded by NSF, with then-VP Michael A. McRobbie as PI.
 - Led implementation of the IU Research SP, the first university-owned 1 TeraFLOPS supercomputer in the US (Oct 2001).

- Led implementation of the first distributed installation of HPSS (High Performance Storage System) at a non-classified installation (2000).

1996-1997	Assistant Director for Research Computing Services, University Computing Services (UCS), Indiana University. Responsible for administration of research computing, including high performance computing, virtual reality, mass storage, general research computing, statistical and mathematical computing, Unix workstation support, and humanities computing. Also responsible for Unix and Novell servers delivering administrative computing applications.
1995-1996	Manager, Support Center, UCS, Indiana University. Responsible for front-line user support via telephone, e-mail, walk-in, and online help systems. Established the IU Knowledge Base (http://kb.iu.edu/) as the primary means of end user support for IU. Yahoo! Internet Life Magazine labelled this the best such help system in 1997.
1991-1995	Director, Center for Statistical and Mathematical Computing, UCS, Indiana University. Responsible for delivery and support of statistical and mathematical software on all UCS computing systems. Responsible for deployment of the Stat/Math Center and the Interdisciplinary Consortium for Statistical Applications; improved statistical and mathematical software offerings on UCS systems; aggressively site licensed stat/math software; implemented highly successful software support model.
1986-1991	Manager, Business Computing Facilities, School of Business, Indiana University. Completed networking of Business building; installed new microcomputers for every faculty member (the first School at IU to have a PC for every faculty member); managed maintenance of 400+ microcomputers; installed Novell LAN (4 th at IU).
1985-1986	Applications Programmer, Bloomington Academic Computing Services, IU. Responsibilities included online help on CDC, VAX, and Prime systems; staffing help desk phone; advanced consulting on statistical software.
1984-1985	Computer Consultant, Bloomington Academic Computing Services, IU. Responsibilities included general computing and advanced statistical consulting.
1981-1984	Associate Instructor, Department of Biology, Indiana University. Taught entomology and parasitology labs, and assisted in teaching of biostatistics.

Significant Awards

2020	Indiana University President's Award for Service
2018	Finalist for best paper, Utility and Cloud Computing conference
2016	Best paper, XSEDE Conference

2015	Best paper, XSEDE Conference
2007	Bandwidth Challenge Award at Supercomputing 2007 conference
2008	Testimony before the United States House of Representatives Committee on Science and Technology
2006	Fulbright Senior Scholar
2003	High Performance Computing Challenge Award at Supercomputing 2003 conference

Grant Awards, Contracts, and Gifts

Total of value of grants and awards in which Stewart has been PI or local subcontract PI: \$41,102,378. The total value of grants on which Stewart has been Co-PI, SI, or major contributor to the writing of a proposals: \$205,474,641. In addition, the IU Pervasive Technology Institute has brought more than \$100M to IU in grants and contracts under Stewart's leadership. In other words, Stewart has been involved in bringing more than a third of a billion dollars in grant funding to IU, along with a few hundred thousand dollars in the form of gifts to the IU Foundation.

Grant awards on which Stewart was PI or IU subcontract PI (Total to date \$45,045,578):

PI: John Towns, University of Illinois Urbana Champaign; SI and local IU subcontract PI: C.A. Stewart. NSF 1548562. **\$7,658,079**. 9/01/2016-08/31/2022. *XSEDE 2.0: eXtreme Science and Engineering Discovery Environment*.

PI: C.A. Stewart. NSF ACI 1445604. **\$13,703,929**. 12/01/2014-11/30/2020. *High Performance Computing System Acquisition: Jetstream-a self-provisioned, scalable science and engineering cloud environment*.

PI: Craig A. Stewart. Microsoft, Inc. **\$1,001,000**. 12/1/1998 – 8/31/2020. *HARC: Humans Advancing Research in the Cloud*.

PI: Daniel Stanzione, University of Texas at Austin. SI and local subcontract PI: C.A. Stewart. NSF UTA 14-000006. **\$550,009**. 11/01/2013-10/31/2019. *Wrangler: A Transformations Data Intensive Resource for the Open Science Community*.

PI: Miron Livney, University of Wisconsin. SI and local subcontract PI: C.A. Stewart. NSF 447K963. **\$804,000**. 06/01/2012-11/30/2016. *The Open Science Grid: The Next Five Years: Distributed High Throughput Computing for the Nation's Scientists, Researchers, Educators, and Students*.

PI: John Towns, University of Illinois, Urbana-Champaign; SI and local IU subcontract PI: C.A. Stewart. NSF PI: C.A. Stewart. **\$6,315,115**. 07/01/2011-06/23/2016. *XSEDE: eXtreme Science and Engineering Discovery Environment*.

PI: C.A. Stewart. NSF DBI 1062432. **\$1,493,200**. 09/15/2011-08/31/2015. *ABI Development: National Center for Genome Analysis Support*.

PI: C.A. Stewart. NSF OCI 1147606. **\$296,637**. 09/01/2011-08/31/2013. *EAGER: Best Practices for Sustainability for Robust Cyberinfrastructure Software*.

PI: C.A. Stewart. NSF 41994. **\$2,224,545**. 04/01/2010-03/31/2013. *TeraGrid Extension: Bridging to XD Supplement*.

PI: C.A. Stewart. NSF OCI 0504075. **\$4,120,557**. 08/01/2005-07/31/2011. *TeraGrid Resource Partners: Indiana University*.

PI: Ian Foster, University of Chicago. SI and local subcontract PI: C.A. Stewart. NSF 30085-C. **\$1,257,743**. 08/01/2005-07/31/2011. *ETF Grid Infrastructure Group: Providing System Management and Integration for the TeraGrid*.

PI: C.A. Stewart. NSF OCI 1002526. **\$16,924**. 11/15/2009-10/31/2010. *Campus Bridging Taskforce Meeting*.

PI: C.A. Stewart. NSF CNS 0521433. **\$1,720,000**. 10/01/2005-09/30/2008. *MRI: Acquisition of a High-Speed, High Capacity Storage System to Support Scientific Computing: The Data Capacitor*.

PI: C.A. Stewart. NIH U24 AA014818. **\$549,555**. 09/30/2003-07/31/2008. *Informatics Core for the Collaborative Initiative on Fetal Alcohol Spectrum Disorders*.

PI: A.R. Chaturvedi. IU local subcontract PI: C.A. Stewart. **\$150,000**. Department of Homeland Security. 03/16/2004-05/31/2007. *Center for Computational Homeland Security*.

PI: C.A. Stewart. NSF OCI 0451237. **\$440,188**. 03/01/2005-02/28/2006. *SCI/ETF Early Operation*.

PI: Stewart, C.A., M.A. McRobbie, G. Bernbom, K. Dunn, S. Fang, D. Hart, G. Hutchins, B. Molitoris, S. Mukhopadhyay, P. Ortoleva, M. Palakal, R. Raje, R. Repasky, E. Wernert. IBM Inc. Shared University Research grant award. **\$1,200,000**. 2001. *Information Technology Applications for the Life Sciences*

Stewart, C.A., P. Ortoleva, J. Glazier, D. Hart. **\$297,305**. 2004. IBM Life Sciences Institute of Innovation Grant. *Three dimensional cell modeling*.

PI: C.A. Stewart. IBM. **\$443,597**. 07/01/2003-2/31/2005. *Center of Excellence in 3-D Cell Modeling*.

PI: C.A. Stewart, M.A. McRobbie, O. Pescovitz, H. Edenberg, M. Dalkilic, J.C. Huffman, P. Cherbas, S. Kim, V. Moskvina, M. Papakhian, A. Shankar, R. Repasky, D. Hart, D. Steward. 2002. IBM Hardware Grant. \$1,100,000. Data-intensive and distributed computing in the life sciences.

PI: C.A. Stewart. Indiana Academy of Science. \$500. 1/1/1982-12/31/1982. *Lipid cycles of the eastern gray squirrel (Sciurus carolinensis)*.

Grant awards on which Stewart is Co-PI, SI, or major contributor to writing and execution of proposal (Total to date: \$205,474,641):

PI: David Y. Hancock. C.A. Stewart, Senior Personnel. NSF 2005506. **\$11,999,999**. 5/29/2020 – 9/30/2025. Jetstream 2: Accelerating Science and Engineering On-Demand.

PI: T.G. Doak, Co-PI: C.A. Stewart. NSF 1759906. **\$962,614**. 09/01/2018-8/31/2021.
Collaborative Research: ABI Sustaining: The National Center for Genome Analysis Support.

P.I.: J.A. Walsh; Co-PIs S. Downey, C.A. Stewart, J. Towns. Hathi Trust (University of Michigan). **\$2,977,194**. 1/1/2018-12/31/2021. Hathi Trust Research Center Phase 2.

PI: T.G. Doak, Co-PI: C.A. Stewart. NSF 1458641. **\$627,854**. 09/01/2015 -08/31/2018.
Collaborative Research: ABI Sustaining: The National Center for Genome Analysis Support.

PI: M.A. McRobbie, Co-PIs: Craig A. Stewart, B. Plale, F. Cate, B.C. Wheeler, G.C. Fox. Lilly Endowment. **\$15,000,000**. 12/15/2008 – 7/30/2014. *The Indiana University Pervasive Technology Institute.*

PI: G.C. Fox; Co-PIs: J. Fortes, A. Grimshaw, K. Keahey, W. Smith; Stewart was SI, initial executive officer, and wrote the majority of the proposal. NSF 0910812. **\$10,133,500**. 10/01/2009 – 9/30/2014. *FutureGrid: An Experimental, High-Performance Grid Test-bed.*

PI: W.K. Barnett, Co-PI: C.A. Stewart. NSF 1040777. **\$45,783**. 08/1/2010-7/31/2011. *An InCommon Roadmap for NSF Cyberinfrastructure*

PI: T. Sterling, Co-PI: C.A. Stewart, A. Lumsdaine. NSF 1205518. **\$98,820**. 08/27/2008-9/30/2010. *CI-P: REFT – A Reconfigurable Execution Framework Testbed for data-driven and extreme scale computing.*

PI: G.C. Fox; Co-PIs: L. Hayden, C.A. Stewart, M.A. Pierce, M. LeCompte. NSF 0723054. **\$1,994,923**. 08/01/2007 – 08/31/2010. *MRI: Acquisition of PolarGrid: Cyberinfrastructure for Polar Science.*

PI: B.C. Wheeler, Co-PI: C.A. Stewart. NSF 829462. **\$131,746**. 08/27/2008 – 07/31/2009. *Cyberinfrastructure Software Sustainability and Reusability Workshop.*

PI: McCaulay, D.S. Co-PIs: M.R. Link, B. Plale, S. Mooney, R. Bramley, R. Heiland, A. Arenson, E. Wernert, C. A. Stewart. 2006. IBM Hardware Grant. **\$1,200,000**. *Taming the data deluge: New tools for managing massive data sets.*

PI: M.A. McRobbie, Co-PIs: C.A. Stewart, P. Cherbas, T. Widlanski. Lilly Endowment. **\$43,000,000**. 1/1/2006-12/31/2012. *METACyt: The Indiana Metabolomics and Cytomics Initiative.*

PI: Paul Avery. Co-PIs: A. Szalay, H. Newman, R. Gardner, I. Foster. G. Bernbom and C.A. Stewart local Co-PIs on IU subcontract after Gard. \$3,200,000, 9/1/2007 – 8/31/2007. ITR/AP: *An International Virtual-Data Grid Laboratory for Data Intensive Science*

PI: Andrew Lumsdaine. Co-PI: Craig A. Stewart. Apple, Inc. 2004. **\$10,000**. Hardware grant in kind *Development of LAM/MPI compatibility.*

PI: C.A. Stewart, J. Glazier, P. Ortoleva, G.C. Fox, R. Bramley, D. Hart, M. Papakhian, M.A. McRobbie. 2003. **\$1,100,000**. IBM Hardware Grant. Three dimensional and multi-scale cell modeling.

PI: McRobbie, M.A.; Co-PIs: C.A. Stewart, R. Bramley, D. Gannon. 2003. National Science Foundation. **\$2,900,000**. IP-Grid - Indiana Purdue Grid.

PI: Dalkilic, M. Co-PI: C.A. Stewart. **\$35,000**. 2002. Development of the Protein Family Annotator. Joint Development Contract with IBM. Inc.

PI: M.A. McRobbie, Co-PI: C.A. Stewart. NSF 116050. **\$1,800,000**. 08/20/2001-8/31/2004. *MRI: Creation of the AVIDD Data Facility: A Distributed Facility for Managing, Analyzing, and Visualizing Instrument-Driven Data grant final report at scholarworks.iu.edu/dspace/handle/2022/477*)

PI: Shankar, A., Co-PIs : A. Arenson, C.A. Stewart, 2002. IBM Grant-In-Kind. **\$450,000**. *DiscoveryLink software license and installation. Scholarworks.iu.edu/dspace/handle/2022/1831*

McRobbie, M.A., C.A. Stewart, R. Bramley, D. Gannon, M. Palakal, R. Raje, S. Mukhopadhyay, S. Slavin, H. Cohn, P. Lugger, D.F. McMullen, J. Huffman, G. Martyna. 2000. IBM Hardware Grant. **\$998,000**. Tightly integrated distributed supercomputing - the Indiana TeraCloud.

PI: D. Maki. Co-PIs: W.P. Ziemer, W.H. Wheeler, J. Hall, C.A. Stewart. Sun Microsystems Inc. Academic Equipment Hardware Grant. 2000. **\$80,000**. WeBWorK: An electronic homework environment for mathematics and other academic disciplines (2000)

PI: K. Börner. Co-PIs: C.A. Stewart, E. Wernert. Sun Microsystems Inc. Academic Equipment Hardware Grant. **\$225,000**. *Sun Center of Excellence*

PI: D. C. Brater & O.H. Pescovitz; Co-PIs W.F. Bosron, C.J. McDonald, H.J. Edenberg, D.W. Crabb, M. Peacock, G.D. Hutchins, B.A. Molitoris, T.-K. Li, J.K. Criser, C.A. Stewart, R. Henriksen. Lilly Endowment. **\$105,000,000**. *INGEN: The Indiana Genomics Initiative. 1/1/2000 – 12/31/2007*.

.PI: M.A. McRobbie. Co-PIs: G. Wittlich, B. Cronin, A. Dillon, S. Thorin, D. Woods, H. Crawford, K. Crews, J. Fern, E. Isaacson, G. Bernbom. Stewart succeeded Bernbom as Co-PI. National Science Foundation Grant 9909068. \$3,132,596. 10/1/ 2000-3/31/2006. DLI-2: Creating the Digital Music Library

PI: Bramley, R., Co-PIs: M.A. McRobbie, C.A. Stewart, Z. Meglicki, D.F. McMullen, G. Bernbom. 1999. IBM Hardware Grant. **\$950,000**. *Infrastructure for deep computing: High Performance Computing component technologies and transparent, unlimited I/O in support of data-intensive research*.

PI: Bramley, R., Co-PIs: M.A. McRobbie, Craig A. Stewart, Christopher Peebles, D.F. McMullen, Z. Meglicki, J. Villacis, T. Stuckey. IBM Hardware Grant. 1998. **\$900,000**. Development of parallel component technologies for high-performance computing.

PI: Randolph, J.C. NASA. \$332,332. 1997-1999. *Center of excellence in applications of remote sensing to regional and global integrated environmental assessments*. Stewart committed and oversaw delivery of matching effort by the UITS Unix Systems Support Group.

PI: Hamburger, M. IU PEPP Earthquake Institute (1997-1998). DOD. **\$480,000**. *Princeton Earth Physics Project (PEPP)*. Stewart committed and oversaw delivery of matching effort by the UITS Unix Systems Support Group.

PI: Bramley, R. SI: C.A. Stewart. NSF. **\$1,204,208**. 9/15/1996-8/31/1998. Academic Research Infrastructure: Acquisition of a Distributed Computation and Immersive Visualization Environment for Complex Systems Scientific Computing Applications on Arrays of Multiprocessors (SCAAMP).

PI: T. Mathiesen, NEH. **\$250,000**. 1997-1998. *Center for the History of Music Theory and Literature (CHMTL)*. Stewart committed and oversaw University Computing Services' match and effort in support of this grant award.

Publications

PEER REVIEWED

Stewart has been senior author or co-author on more than 70 peer-reviewed publications in three distinct disciplines: biology, computer engineering, and quality management/scientometrics

2024

Soichi Hayashi , Bradley Caron , Anibal Heinsfeld , Sophia Vinci-Booher , Brent McPherson , Daniel Bullock , Giulia Bertò , Julia Guiomar Niso , Sandra Hanekamp , Daniel Levitas , Lindsey Kitchell , Josiah Leong , Filipi Silva , Serge Koudoro , Hanna Willis , Jasleen Jolly , Derek Pisner , Taylor Zuidema , Jan Kurzawski , Kyriaki Mikellidou , Aurore Bussalb , Chris Rorden , Conner Victory , Dheeraj Bhatia , Dogu Baran Aydogan , Fang-Cheng Yeh , Franco Delogu , Javier Guaje , Jelle Veraart , Jeremy Fischer , Joshua Faskowitz , Maximilien Chaumon , Ricardo Fabrega , David Hunt , Shawn McKee , Shawn Brown , Stéphanie Heyman , Vittorio Iacovella , Amanda Mejia , Daniele Marinazzo , R Cameron Craddock , Emanuele Olivetti , Jamie Hanson , Paolo Avesani , Eleftherios Garyfallidis , Dan Stanzione , James Carson , Robert Henschel , David Hancock , Craig Stewart , David Schnyer , Damian Eke , Russell Poldrack , Nathalie George , Holly Bridge , Ilaria Sani , Winrich Freiwald , Aina Puce , Nicholas Port , Kimberly Ray , Anne MacKenzie , Steffen Bollmann , Ashley Stewart 2024. brainlife.io: A decentralized and open source cloud platform to support neuroscience research. *Nature Methods*: In press.

Snapp-Childs, W.G., D.L. Hart, C.M. Costa, J.A. Wernert, H.E. Jankowski, J.W. Towns, C.A. Stewart. 2024. Evaluating Return On Investment for Cyberinfrastructure using the International Integrated Reporting Framework. *Springer Nature*: In press.

2023

Shankar, A., D.Y. Hancock, S. Michael, L. Huber, J. Butler, R. Henschel, and C.A. Stewart. 2023. Security Standards and use of Cyberinfrastructure Systems in Clinical Research. In *Practice and Experience in Advanced Research Computing (PEARC '23)*, July 23–27, 2023, Portland, OR, USA. ACM, New York, NY, USA, 7 pages.

Stewart, C.A., C.M. Costa, J.A. Wernert, W. Snapp-Childs, M. Bland, P. Blood, T. Campbell, P. Couvares, J. Fischer, D.Y. Hancock, D.L. Hart, H. Jankowski, Richard Knepper, Donald F. McMullen, Susan Mehringer, Marlon Pierce, Gary Rogers, Robert S. Sinkovits and John Towns. 2023. Use of accounting concepts to study research: Return On Investment in XSEDE, a US cyberinfrastructure service. *Scientometrics* 128(6):3225-3255. <https://doi.org/10.1007/s11192-022-04539-8>

2022

Chityala, P., C.M. Costa, J.A. Wernert, and C.A. Stewart. 2022. Cyberinfrastructure value: a survey on perceived importance and usage. In Practice and Experience in Advanced Research Computing (PEARC '22), July 10–14, 2022, Boston, MA, USA. ACM, New York, NY, USA 4 Pages. <https://doi.org/10.1145/3491418.3535173>

Mahendran, S., C.M. Costa, J. Wernert, and C.A. Stewart. 2022. Institutional Value of a Nobel Prize. In Practice and Experience in Advanced Research Computing (PEARC '22), July 10–14, 2022, Boston, MA, USA. ACM, New York, NY, USA 4 Pages. <https://doi.org/10.1145/3491418.3535157>

Stewart, C.A., C.M. Costa, J.A. Wernert, D.Y. Hancock, D.F. McMullen, P. Blood, R. Sinkovits, S. Mehringer, R. Knepper, J. Fischer, M. Bland, G. Rogers, P. Couvares, T. Campbell, H. Jankowski, W. Snapp-Childs, and J. Towns. 2022. Metrics of financial effectiveness: Return On Investment in XSEDE, a national cyberinfrastructure coordination and support organization. In Practice and Experience in Advanced Research Computing (PEARC '22), July 10–14, Boston, MA, USA. ACM, New York, NY, USA 9 Pages. <https://doi.org/10.1145/3491418.3530287>

Stewart, C.A., J.A. Wernert, C.M. Costa, D.Y. Hancock, R. Knepper, and W. Snapp-Childs. 2022. Return on Investment in Research Cyberinfrastructure: State of the Art. In Practice and Experience in Advanced Research Computing (PEARC '22), July 10–14, 2022, Boston, MA, USA. ACM, New York, NY, USA 4 Pages. <https://doi.org/10.1145/3491418.3535131>

2021

Geva, S.B., A. Chalker, C.W. Hillegas, D. Petravick, A. Sill, C.A. Stewart. 2021. Results from a second longitudinal survey of academic research computing and data center usage: expenditures, utilization patterns, and approaches to return on investment. PEARC '21, July 18–22, 2021, Boston, MA, USA. ACM ISBN 978-1-4503-8292-2/21/07. Available at <https://doi.org/10.1145/3437359.3465589>

Link, M.R., A. Shankar, D.Y. Hancock, R. Henschel, S. Michael, C.A. Stewart. 2021. Security standards compliance and ease of use of high performance computing systems in clinical research. Presented at the Fourth ISC Workshop on HPC Applications in Precision Medicine. A virtual workshop (<http://ncihub.org/groups/hapm21>) of the International Supercomputing Conference 2021. Available at: <http://hdl.handle.net/2022/26637>

2020

Chalker, A., C. Hillegas, A. Sill, S. Broude Geva, C.A. Stewart. 2020. Cloud and on-premises data center usage, expenditures, and approaches to return on investment: A survey of academic research computing organizations. In Practice and Experience in Advanced Research Computing (PEARC '20). Association for Computing Machinery, New York, NY, USA, 26–33. DOI:<https://doi.org/10.1145/3311790.3396642>

2019

Hancock¹, D.Y., C.A. Stewart¹, M. Vaughn, J. Fischer, J.M. Lowe, G. Turner, T.L. Swetnam, T.K. Chafin, E. Afgan, M.E. Pierce, W. Snapp-Childs. 2019. Jetstream - Early operations performance, adoption, and impacts. *Concurrency and Computation Practice and Experience*. e4683. <https://doi.org/10.1002/cpe.4683>

Stewart, C.A., A. Apon, D.Y. Hancock, T. Furlani, A. Sill, J. Wernert, D. Lifka, N. Berente, T. Cheatham, S.D. Slavin. 2019. Assessment of non-financial impacts of investment in cyberinfrastructure: A survey of current methods. In *HARC '19: Proceedings of the PEARC '19 Workshop: Humans in the Loop: Enabling and Facilitating Research on Cloud Computing*. ACM, New York, NY, USA, 10 pages. <https://doi.org/10.1145/3355738.3355749>.

Stewart, C.A., D.Y. Hancock, J.A. Wernert, T. Furlani, D.A. Lifka, A. Sill, N. Berente, D.F. McMullen, T.E. Cheatham, A.W. Apon, R. Payne, S.D. Slavin. 2019. Assessment of financial returns on investments in cyberinfrastructure facilities: A survey of current methods. *PEARC '19: Proceedings of the Practice and Experience in Advanced Research Computing on Rise of the Machines*. July 2019 Article No.: 33 Pages 1–8. <https://doi.org/10.1145/3332186.3332228>

Stewart¹, C.A., D.Y. Hancock¹, T. Miller, J. Fischer, L. Liming, G. Turner, J.M. Lowe, S. Gregory, E. Skidmore, M. Vaughn, D. Stanzione, N. Merchant, I. Foster, J. Taylor, P. Rad, V. Brendel, E. Afgan, M. Packard, W. Snapp-Childs. 2019. Jetstream - a novel cloud system for science. Book Chapter. In: Vetter, J. (ed.). *Contemporary High Performance Computing: From Petascale toward Exascale, Volume Three*. Chapman & Hall/CRC Computational Science. ISBN 9781138487079 - CAT# K349536. Pp. 189-222.

Stewart, C.A., R. Knepper, M.R. Link, M. Pierce, E.A. Wernert, N. Wilkins-Diehr. 2019. Cyberinfrastructure, Cloud Computing, Science Gateways, Visualization, and Cyberinfrastructure Ease of Use. In M. Khosrow-Pour (Ed.), *Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics*. ISBN-13: 978-1522575986. (pp. 157-170). IGI Global. <https://doi.org/10.4018/978-1-5225-7598-6.ch012>

2018

Fischer, J., B.W. Beck, S. Sudarshan, G. Turner, W.Y. Snapp-Childs, C.A. Stewart, D.Y. Hancock. 2018. Methodologies and practices for adoption of a novel national research environment. *PEARC '18: Practice and Experience in Advanced Research Computing*, July 22-26, 2018, Pittsburgh, PA, USA. ACM, New York, NY, USA, Article No: 96. 8 pages. doi: 10.1145/3219104.3219115

Lowe, J. M., J. Fischer, S. Sudarshan, G. Turner, C.A. Stewart, D.Y. Hancock. 2018. High Availability on Jetstream: Practices and Lessons Learned. *Proceedings of the 9th Workshop on Scientific Cloud Computing*. Tempe, AZ, USA, June 11, <https://doi.org/10.1145/3217880.3217884>

Stewart, C.A., R. Knepper, M.R. Link, M. Pierce, E.A. Wernert, N. Wilkins-Diehr. 2018. Cyberinfrastructure, Cloud Computing, Science Gateways, Visualization, and Cyberinfrastructure Ease of Use. Pp. 1063-1074 In M. Khosrow-Pour. *Encyclopedia of Information Science and Technology*, Fourth Edition. IGI Global, Hershey PA, USA. Available from: <http://hdl.handle.net/2022/21589>

Stewart¹, C.A., D.Y. Hancock¹, J. Wernert, M.R. Link, N. Wilkins-Diehr, T. Miller, K. Gaither, W. Snapp-Childs. 2018. Return on Investment for three cyberinfrastructure facilities: a local campus supercomputer; the NSF-funded Jetstream cloud system; and XSEDE (the eXtreme Science and Engineering Discovery Environment). *2018 IEEE/ACM 11th International Conference on Utility and Cloud Computing (UCC)*. 17-20 December, Zurich, Switzerland. DOI 10.1109/UCC.2018.00031. One of three finalists for best paper award.

Stewart, C.A. and Marion Krefeldt. 2018. Your Good Health is a Workforce Issue. PEARC '18: Practice and Experience in Advanced Research Computing, July 22-26, 2018, Pittsburgh, PA, USA. ACM, New York, NY, USA, Article No.: 75. doi:10.1145/3219104.3219107

2017

Chen, L., B. Peng, B. Zhang, T. Liu, Y. Zou, L. Jiang, R. Henschel, C.A. Stewart, Z. Zhang, E. McCallum, T. Zahniser, J. Omer, J. Qiu. 2017. Benchmarking Harp-DAAL: High Performance Hadoop on KNL Clusters. *Proceedings of IEEE Cloud 2017 Conference* June 25-30 2017, Honolulu, HI, USA. doi:10.1109/CLOUD.2017.19

Jeremy Fischer, David Y. Hancock, John Michael Lowe, George Turner, Winona Snapp-Childs, and Craig A. Stewart. 2017. Jetstream: A Cloud System Enabling Learning in Higher Education Communities. In *Proceedings of the 2017 ACM Annual Conference on SIGUCCS (SIGUCCS '17)*. ACM, New York, NY, USA, 67-72. DOI: <https://doi.org/10.1145/3123458.3123466>

Fulton, B., S. Gallo, R. Henschel, T. Yearke, K. Börner, R.L. DeLeon, T. Furlani, C.A. Stewart, M. R. Link. XDMoD Value Analytics: A Tool for Measuring the Financial and Intellectual ROI of Your Campus Cyberinfrastructure Facilities. *PEARC17: Proceedings of the Practice and Experience in Advanced Research Computing 2017 on Sustainability, Success and Impact*. New Orleans, LA, USA. July 09-13, 2017. doi:10.1145/3093338.3093358

Navarro, J.P. C.A. Stewart, R. Knepper, L. Liming, D. Lifka, M. Dahan. 2017. The Community Software Repository from XSEDE: A Resource for the National Research Community. In *PEARC17: Proceedings of the Practice and Experience in Advanced Research Computing 2017 on Sustainability, Success and Impact*. New Orleans, LA, USA. July 09-13, 2017. doi:10.1145/3093338.3093373

Peng, B., B. Zhang, L. Chen, M. Avram, R. Henschel, C. Stewart, S. Zhu, E. MacCallum, L. Smith, T. Zahniser, J. Omer, J. Qiu. 2017. HarpLDA+: Optimizing Latent Dirichlet Allocation for Parallel Efficiency, *Proceedings for the IEEE Big Data 2017*, Boston, MA, USA, December 11-14, <https://doi.org/10.1109/BigData.2017.8257932>

2016

Coulter, E., J. Fischer, B. Hallock, R. Knepper, D. Lifka, J.P. Navarro, M. Pierce, C.A. Stewart. 2016. Cyberinfrastructure as a platform to facilitate effective collaboration between institutions and support collaboratories. In the SIGUCCS'16: *Proceedings of the 2016 ACM on SIGUCCS Annual Conference*. Proceedings of SIGUCCS '16, USA. doi:10.1145/2974927.2974962

Eric Coulter, Jeremy Fischer, Barbara Hallock, Richard Knepper, and Craig Stewart. 2016. Implementation of Simple XSEDE-Like Clusters: Science Enabled and Lessons Learned. In *Proceedings of the XSEDE16 Conference on Diversity, Big Data, and Science at Scale (XSEDE16)*. ACM, New York, NY, USA, Article 10, 8 pages. DOI: <https://doi.org/10.1145/2949550.2949570>

Grimshaw, A., M.A. Prodhon, C.A. Stewart, R. Knepper. (2016). Campus Compute Co-operative (CCC): A Service Oriented Cloud Federation. In *Proceedings of the IEEE 12th International Conference on eScience*. Baltimore, MD October 24-26.

Stewart, C.A., Hancock, D.Y., Vaughn, M., Fischer, J., Cockerill, T., Liming, L., Merchant, N., Miller, T., Lowe, J.M., Stanzione, D.C., Taylor, J., Skidmore, E. (2016). Jetstream – performance, early experiences, and early results. In *Proceedings of the 2016 XSEDE Conference: Diversity, Big Data & Science at Scale*, doi:10.1145/2949550.2949639. Winner: 2016 Phil Andrews Memorial Best Technical Paper Award

Thota, A., Fulton, B., Weakley L. M., Henschel, R., Hancock, D.Y., Allen, M., Tillotson, J., Link, M., & Stewart, C. A. (2016). A PetaFLOPS Supercomputer as a Campus Resource: Innovation, Impact, and Models for Locally-Owned High Performance Computing at Research Colleges and Universities. In *Proceedings of SIGUCCS '16*. November 06-09, 2016, Denver, CO, USA. DOI: <http://dx.doi.org/10.1145/2974927.2974956>

2015

Fischer, J., E. Coulter, R. Knepper, C. Peck and C. A. Stewart. 2015. XCBC and XNIT - Tools for Cluster Implementation and Management in Research and Training, In *Proceedings for the 2015 IEEE International Conference on Cluster Computing*, Chicago, IL, pp. 857-864. <https://doi.org/10.1109/CLUSTER.2015.143>

Fischer, J., Tuecke, S., Foster, I., Stewart, C.A. (2015). Jetstream: A Distributed Cloud Infrastructure for Under Resourced Higher Education Communities. In *SCREAM '15 Proceedings of the 1st Workshop on The Science of Cyberinfrastructure: Research, Experience, Applications and Models*. Pages 53-61. ACM. doi:10.1145/2753524.2753530

Stewart, C.A., Roskies, R., Knepper, R., Moore, R.L., Whitt, J., & Cockerill, T.M. (2015) XSEDE Value Added, Cost Avoidance, and Return on Investment. In *Proceedings of the 2015 XSEDE Conference: Scientific Advancement Enabled by Enhanced Cyberinfrastructure*, doi: <http://dx.doi.org/10.1145.2792745.2792768>. Winner: 2015 Phil Andrews Best Technical Paper Award

Stewart, C.A., Cockerill, T.M., Foster, I., Hancock, D.Y., Merchant, N., Skidmore, E., Stanzione, D.C., Taylor, J., Tuecke, S., Turner, G., Vaughn, M., & Gaffney, N.I. (2015). Jetstream: a self-provisioned, scalable science and engineering cloud environment. In *Proceedings of the 2015 XSEDE Conference: Scientific Advancements Enabled by Enhanced Cyberinfrastructure*, doi: <http://dx.doi.org/10.1145.2792745.2792768>.

Stewart, C. A., Barnett, W. K., Wernert, E. A., Wernert, J. A., Welch, V., Knepper, R. (2015). *Sustained software for cyberinfrastructure: Analyses of successful efforts with a focus on NSF-funded software*. In *Proceedings of the 1st Workshop on The Science of Cyberinfrastructure: Research, Experience, Applications and Models*, pages 63-72. ACM. doi>10.1145/2753524.2753533

Le-Shin Wu, Carrie L. Ganote, Thomas G. Doak, William Barnett, Keithanne Mockaitis, and Craig A. Stewart. 2015. Cyberinfrastructure resources enabling creation of the loblolly pine reference transcriptome. In *Proceedings of the 2015 XSEDE Conference: Scientific Advancements Enabled by Enhanced Cyberinfrastructure (XSEDE '15)*. ACM, New York, NY, USA, , Article 3 , 6 pages. DOI: <http://dx.doi.org/10.1145/2792745.2792748>

2014

Stewart, C.A., Knepper, R. D., Link, M. R., Pierce, M., Wernert, E. A., Wilkins-Diehr, N. Cyberinfrastructure, Science Gateways, Campus Bridging, and Cloud Computing. In *Encyclopedia of Information Science and Technology*, Third Edition. Vol. IX. 2014. Hershey, PA. <http://www.igi-global.com>. Available at <http://hdl.handle.net/2022/18608>

Fischer, J., Knepper, R., Standish, M., Stewart, C.A., Alvord, R., Lifka, D., Hallock, B., Hazlewood, V. 2014. Methods for Creating XSEDE Compatible Clusters. In *XSEDE '14 Proceedings of the 2014 Annual Conference on Extreme Science and Engineering Discovery Environment*. Article No. 77. July 13-18, 2014, Atlanta, GA. <http://dx.doi.org/10.1145/2616498.2616578>. Also available at: <http://hdl.handle.net/2022/19209>

Hallock, B., R. Knepper, J. Ferguson, C.A. Stewart. XSEDE Campus Bridging Pilot Case Study. In *XSEDE '14 Proceedings of the 2014 Annual Conference on Extreme Science and Engineering Discovery Environment*. Article No. 77. July 13-18, 2014, Atlanta, GA.

Hallock, B., R. Knepper, J. Ferguson, C.A. Stewart. Leveraging Your Local Resources and National Cyberinfrastructure Resources without Tears. SIGUCCS '14 In *Proceedings of the 42nd annual ACM SIGUCCS conference on User services*. (pp. 107-110).

2013

Kluge, M., S. Simms, T. William, R. Henschel, A. Georgi, C. Meyer, M.S. Mueller, C.A. Stewart, W. Wunsch, & W.E. Nagel. "Performance and quality of service of data and video movement over a 100 Gbps testbed." *Future Generation Computer Systems*, 29(1), 230-240. 2013. <http://dx.doi.org/10.1016/j.future.2012.05.028>

Knepper, R. B. Hallock, C.A. Stewart, M. Link and M. Jacobs, "Rockhopper, a true HPC system built with cloud concepts," 2013 IEEE International Conference on Cluster Computing (CLUSTER), 2013, pp. 1-5, doi: 10.1109/CLUSTER.2013.6702658.

2012

Henschel, R., S. Simms, D. Hancock, S. Michael, T. Johnson, N. Heald, T. William, D. Berry, M. Allen, R. Knepper, M. Davy, M.R. Link and C.A. Stewart. Demonstrating Lustre over a 100Gbps Wide Area Network of 3500km. In *Proceedings of SC'12: Proceedings of the International Conference on High Performance Computing, Networking, Storage and Analysis*. (Salt Lake City, UT, 2012). ISBN: 978-1-4673-0804-5. <http://dl.acm.org/citation.cfm?id=2388996.2389005>

Kallback-Rose, K., K. Seiffert, D. Antolovic, T. Miller, R. Ping and C. Stewart. Conducting K-12 outreach to evoke early interest in IT, science, and advanced technology. In *Proceedings of 1st Conference of the Extreme Science and Engineering Discovery Environment: Bridging from the eXtreme to the campus and beyond*. (Chicago, Illinois, 2012). ACM. <http://doi.acm.org/10.1145/2335755.2335853> Preprint: <http://hdl.handle.net/2022/14807>

Stewart, C.A., F. Bachmann, V. Hazlewood, R. Knepper, I. Foster, J.W. Ferguson, A. Grimshaw, D. Lifka. 2012. What is campus bridging and what is XSEDE doing about it? In *Proceedings of 1st Conference of the Extreme Science and Engineering Discovery Environment: Bridging from the eXtreme to the campus and beyond*. (Chicago, Illinois, 2012). ACM. <http://dx.doi.org/10.1145/2335755.2335844>

2010

Arenson, A.D., L.N. Bakhireva, C.D. Chambers, C.A. Deximo, T. Foroud, J.L. Jacobson, S.W. Jacobson, K.L. Jones, S.N. Mattson, P.A. May, E.S. Moore, K. Ogle, E.P. Riley, L.K. Robinson, J. Rogers, A.P. Streissguth, M.C. Tavares, J. Urbanski, Y. Yezerets, R. Surya, C.A. Stewart and W.K. Barnett. "Implementation of a shared data repository and common data dictionary for fetal alcohol spectrum disorders research". *Alcohol*, 44(7-8), 643-647. 2010.
<http://dx.doi.org/10.1016/j.alcohol.2009.08.007> or <http://hdl.handle.net/2022/7194>

Stewart, C.A., S. Simms, B. Plale, M. Link, D. Hancock and G. Fox. What is Cyberinfrastructure? In *Proceedings of SIGUCCS 2010*. (Norfolk, VA, 24-27 Oct, 2010).
<http://portal.acm.org/citation.cfm?doid=1878335.1878347>

Stewart, C.A., M. Link, D.S. McCaulay, G. Rodgers, G. Turner, D. Hancock, P. Wang, F. Saied, M. Pierce, R. Aiken, M. Mueller, M. Jurenz, M. Lieber, J. Tillotson and B. Plale. "Implementation, performance, and science results from a 30.7 TFLOPS IBM BladeCenter cluster." *Concurrency and Computation: Practice and Experience*, 22(2), 157-174. 2010.
<http://dx.doi.org/10.1002/cpe.153>

2009

Li, H., D. Hart, M. Mueller, U. Markwardt and C.A. Stewart. GeneIndex: An Open Source Parallel Program for Enumerating and Locating Words in a Genome. In *Proceedings of IJCBS '09. International Joint Conference on Bioinformatics, Systems Biology and Intelligent Computing* (3-5 Aug. 2009). <http://dx.doi.org/10.1109/IJCBS.2009.127>

Lowe, J.M., C. Shields, D. Hancock, M. Link, C.A. Stewart and M. Pierce. Gateway Hosting at Indiana University. In *Proceedings of the TeraGrid 2009 Conference*. (Arlington, VA, 2009).
<http://hdl.handle.net/2022/13944>

2008

Simms, S.C., C.A. Stewart and S.D. McCaulay. Cyberinfrastructure resources for U.S. Scholarship: the TeraGrid. In: *Proceedings of the 36th annual ACM SIGUCCS conference on User services*. (Portland, OR, USA, 2008). ACM. <http://portal.acm.org/citation.cfm?id=1450057>

Catlett, C., W.E. Allcock, P. Andrews, R. Aydt, R. Bair, N. Balac, B. Banister, T. Barker, M. Bartelt, P. Beckman, F. Berman, G. G. Bertoline, A. Blatecky, J. Boisseau, J. Bottum, S. Brunett, J. Bunn, M. Butler, D. Carver, J. Cobb, T. Cockerill, P.F. Couvares, M. Dahan, D. Diehl, T. Dunning, I. Foster, K. Gaither, D. Gannon, S. Goasguen, D. Grobe, D. Hart, M. Heinzl, C. Hempel, W. Huntoon, J. Insley, C. Jordan, I. Judson, A. Kamrath, N. Karonis, C. Kesselman, P. Kovatch, L. Lane, S.L. Lathrop, M., D. Lifka, L. Liming, M. Livny, R. Loft, D. Marcusiu, J. Marsteller, S. Martin, D.S. McCaulay, J. McGee, L. McGinnis, M.A. McRobbie, P. Messina, R. Moore, J.P. Navarro, J. Nichols, M.E. Papka, R. Pennington, G. Pike, J. Pool, R. Reddy, D. Reed, T. Rimovsky, E. Roberts, R. Roskies, S. Sanielevici, J.R. Scott, A. Shankar, M. Sheddon, M. Showerman, D. Simmel, A. Singer, D. Skow, S. Smallen, W.S. Smith, C., R. Stevens, C.A. Stewart, R.B. Stock, N. Stone, J. Towns, T. Urban, M. Vildibill, E. Walker, V. Welch, N. Wilkins-Diehr, R. Williams, L. Winkler, L. Zhao and A. Zimmerman. TeraGrid: Analysis of Organization, System Architecture, and Middleware Enabling New Types of Applications. In *Advances in Parallel Computing, Volume 16, 2008: High Performance Computing and Grids in Action*. L. Grandinetti, ed. IOS Press, Amsterdam, 2008. <http://hdl.handle.net/2022/14524>

2007

Stewart, C.A., M. Mueller, M. Lingwall. 2007. Progress Towards Petascale Applications in Biology: Status in 2006. In: W. Lehner, N. Meyer, A. Streit, C.A. Stewart (eds.). *Euro-Par 2006 Parallel Processing: Workshops*. In CoreGRID 2006, UNICORE Summit 2006, Petascale Computational Biology and Bioinformatics, Dresden, Germany (Lecture Notes in Computer Science). Springer-Verlag Berlin Heidelberg. <http://hdl.handle.net/2022/1829>

Arenson A.D., L. Bakhireva, T. Chambers, C. Deximo, T. Foroud, J. Jacobson, S. Jacobson, K.L. Jones, S. Mattson, P. May, E. Moore, K. Ogle, E. Riley, L. Robinson, J. Rogers, A. Streissguth, M. Tavares, J. Urbanski, H. Yezerets, C.A. Stewart. 2007. Implementation of a distributed architecture for managing collection and dissemination of data for fetal alcohol spectrum disorders research. In W. Dubitzky (eds): *GCCB 2006*, LNBI 4360. Springer-Verlag Berlin Heidelberg. pp. 33-46. <http://hdl.handle.net/2022/1025>

2005

Myron, S.A., M.R. Link, R. Knepper, C.A. Stewart. 2005. PubsOnline: an open source database for managing and delivering bibliographic information. *Proceedings of the 33rd annual ACM SIGUCCS conference on User services*. 6-9 November 2005, Monterey, CA, USA. <http://portal.acm.org/citation.cfm?id=1099492>

Wernert, E.A., M. Boyles, J.N. Huffman, J. Rogers, J.C. Huffman, C.A. Stewart: The john-e-box: fostering innovation, inclusion, and collaboration through accessible advanced visualization. *Proceedings of Richard Tapia Celebration of Diversity in Computing Conference*. 2005: 64-67. <http://portal.acm.org/citation.cfm?doid=1095269>

2004

Stewart, C.A. 2004. Bioinformatics: transforming biomedical research and medical care. *Communications of the ACM*. 47(11): 31-33. <http://portal.acm.org/citation.cfm?doid=1029496.1029522>

Wang, P., G. Turner, S. Simms, D. Hart, M. Papakhian and C.A. Stewart. One Teraflop Achieved with a Geographically Distributed Linux Cluster. In *High-Performance Computing*. L.T. Yang and M. Guo, eds., 2006. <http://dx.doi.org/10.1002/0471732710.ch26>

Stewart, C.A. R. Keller, R. Repasky, M. Hess, D. Hart, M. Mueller, R. Sheppard, U. Woessner, M. Aumueller, Huian Li, D.K. Berry, J. Colbourne. 2004. A global grid for analysis of arthropod evolution. pp. 328-337 In R. Buyya (ed.) *Proceedings: Fifth IEEE/ACM International Workshop on grid computing*. 8 November 2004, Pittsburgh, PA. <http://portal.acm.org/citation.cfm?id=1033261>

Stewart, C.A., D. Hart, R.W. Sheppard, H. Li, R. Cruise, V. Moskvina, L. Papiez. 2004. Parallel computing in biomedical research and the search for peta-scale biomedical applications. pp. 719-716 In: G.R. Joubert, W.E. Nagel, F.J. Peters, and W.V. Walter (eds). *Parallel computing: software technology, algorithms, architectures & applications*. Advances in Parallel Computing Vol. 13. Elsevier, Oxford. doi:10.1016/S0927-5452(04)80088-1

2003

Stewart, C.A., D. Hart, R. Repasky, M. Papakhian, A. Shankar, E. Wernert, A.D. Arenson, G. Bernbom. 2003. *Advanced Information Technology Support for Life Sciences Research*. Proceedings of SIGUCCS 2003 Conference, 21-24 September, San Antonio, TX.
<http://portal.acm.org/citation.cfm?id=947472>

2002

Samuel, J.V., Peebles, C.S., Noguchi, T., Stewart, C.A. 2002. Gauging IT Support Strategies: User needs then and now. *Proceedings of SIGUCCS 2002 Conference*, November 20-23, Providence, RI, pp. 284-285. <http://portal.acm.org/citation.cfm?id=588646.588723>

Samuel, J.V., Wilhite, K.J., Stewart, C.A. 2002. Getting More for Less: A Software Distribution Model. Paper presented at the EDUCAUSE Conference, October 1-4, Atlanta, GA.
<http://educause.edu/ir/library/pdf/EDU0246a.pdf>

2001

Peebles, C.S., C.A. Stewart, B.D. Voss, S.B. Workman. 2001. Measuring quality, cost, and value of IT services in higher education. *Proceedings of the American Quality Congress*, Charlotte, NC, May 2001. <http://hdl.handle.net/2022/426>

Peebles, C.S., C.A. Stewart, B.D. Voss, S.B. Workman. 2001. Measuring quality, cost, and value of IT services in higher education. *Proceedings of EDUCAUSE*, Indianapolis, IN, October 2001. <http://hdl.handle.net/2022/425>

Stewart, C.A., D. Hart, D. K. Berry, G. J. Olsen, E. Wernert, W. Fischer. 2001. Parallel implementation and performance of fastDNAm1 - a program for maximum likelihood phylogenetic inference. *Proceedings of SC2001*, Denver, CO, November 2001.
<http://portal.acm.org/citation.cfm?id=582054>

Stewart, C.A., C.S. Peebles, M. Papakhian, J. Samuel, D. Hart, S. Simms. 2001. High Performance Computing: Delivering Valuable and Valued Services at Colleges and Universities. *Proceedings of SIGUCCS*, Portland, OR, October 2001.
<https://dl.acm.org/citation.cfm?id=500956.501026>

1999

Stewart, C.A., T.W. Tan, M. Buckhorn, D. Hart, D.K. Berry, L. Zhang, E. Wernert, M. Sakharkar, W. Fischer, and D.F. McMullen. Evolutionary biology and computational grids. Paper presented at *CASCON Workshop on Computational Biology* (Mississauga, Ontario, Canada, 10 Nov, 1999). <http://hdl.handle.net/2022/14008>

1998

Stewart, C.A., D. Grover, R.D. Vernon. 1998. Changing (almost) everything and keeping (almost) everyone happy. *CAUSE/Effect* 21(3):39-46.
<http://net.educause.edu/ir/library/html/cem/cem98/cem9837.html>

1993

Stewart, C.A., and P.A. McClure. 1993. Diurnal variation in thermal and metabolic parameters of the golden hamster (*Mesocricetus auratus*). *J. Comp. Physiol. B* 63: 234-238. <http://dx.doi.org/10.1007/BF00261670>

1991

Stewart, C.A. 1991. A note on the microdistribution of the Red-Backed Vole, *Clethrionomys gapperi*, in the E.N. Huyck Preserve, New York. *Can. Field-Naturalist* 105:274-275. <http://hdl.handle.net/2022/14019>

1990

Stewart, C.A., J. Owens, and P.A. McClure. 1990. Air flow and convective heat loss from small mammals in laboratory metabolism chambers. *J. Thermal Biol.* 15:313-316. doi:10.1016/0306-4565(90)90018-D

1989

Stewart, C.A. and P.A. McClure. Diurnal variation in minimal thermal conductance of three rodents: The white-footed mouse (*Peromyscus leucopus*), the golden hamster (*Mesocricetus auratus*), and the eastern woodrat (*Neotoma floridana*). J.B. Mercer, ed. *Thermal physiology*. Elsevier Science Publishers B.V. (Biomedical Division). 1989. <http://hdl.handle.net/2022/15226>

1988

Stewart, C.A. 1988. Diurnal variation in minimal thermal conductance of the white-footed mouse (*Peromyscus leucopus*), the golden hamster (*Mesocricetus auratus*), and the eastern woodrat (*Neotoma floridana*). Ph.D. dissertation, Indiana University. <http://hdl.handle.net/2022/13327>

Stewart, C.A. 1988. Diet of the rainbow darter (*Etheostoma caeruleum*) in Rock Run, Clark County, Ohio. *Ohio. J. Science* 88: 198-200. <http://hdl.handle.net/2022/13261>

TECHNICAL REPORTS & STRATEGIC PLANS (NOT PEER REVIEWED)

2020

Stewart, C. A., V. Welch, T. G. Doak, T. Miller, B. Plale, M. Pierce, D.Y. Hancock, R. Henschel, J.A. Walsh, M.R. Link, W. Snapp-Childs, H. Jankowski. 2020. The Pervasive Technology Institute at 20: Two decades of success and counting. Available from <http://hdl.handle.net/2022/22607> and <https://doi.org/10.5967/qdf0-s837>.

Wernert, J.A.; C.M. Costa, D.F. McMullen, C.A. Stewart, P.D. Blood, R. Sinkovits, S.H. Mehringer, and R. Knepper. 2020. Technical Report: XSEDE Return on Investment (Proxy) Data and Analysis Methods, July 2014 to August 2019. <http://hdl.handle.net/2022/25704>

Stewart, C.A., Slavin, S., Ping, R. 2020. *2020 External Review of the Pervasive Technology Institute*. (PTI Technical Report PTI-TR20-005). <http://hdl.handle.net/2022/25626>

Stewart, C.A., T. Miller, W. Snapp-Childs, H. Jankowski, and M. Husk, M. 2020. *Indiana University Pervasive Technology Institute preproposal and proposal management, documentation, and templates*. Indiana University. <http://hdl.handle.net/2022/25580>

2019

Stewart, C.A. V. Welch, T.G. Doak, T. Miller, B. Plale, J.A. Walsh, M.R. Link, W. Snapp-Childs. 2019. *The Pervasive Technology Institute at 20: Two decades of success and counting*. (PTI Technical Report PTI-TR19-001). <https://doi.org/10.5967/qdf0-s837>. <http://hdl.handle.net/2022/22607>

2018

Doak, T. G., Stewart, C. A., & Michaels, S. D. 2018. *ABI Sustaining: The National Center for Genome Analysis Support 2018 Annual Report*. (PTI Technical Report PTI-TR18-004) Bloomington, IN: Indiana University. <http://hdl.handle.net/2022/22402>

Sanders, S., Ganote, C., Papudeshi, B., Stewart, C., & Doak, T. 2018. *Summary of the National Center for Genome Analysis Support (NCGAS) 2018 de novo Transcriptome Workflow and Workshop*. (PTI Technical Report PTI-TR18-002) Bloomington, IN: Indiana University. from <http://hdl.handle.net/2022/22254>

2017

Doak, T.G., Stewart, C.A. Hancock, D.Y., Wernert, J. & Miller, T. 2017. “Summary of the Survey of Field/Marine Station Directors and Managers”, Indiana University, Bloomington, IN. PTI Technical Report PTI-TR17-006. <http://hdl.handle.net/2022/21835>

Doak, T.G., Stewart, C.A., Michaels, S.D. 2017. “ABI development: National center for genome analysis support 2017 annual report”, Indiana University, Bloomington, IN. PTI Technical Report PTI-TR17-003. <http://hdl.handle.net/2022/21613>

Doak, T.G., Stewart, C.A., Michaels, S.D. 2017. “Summary of the 2017 NCGAS User Survey”, Indiana University, Bloomington, IN. PTI Technical Report PTI-TR17- 005. Retrieved from <http://hdl.handle.net/2022/21614>

Stewart, C.A., D.Y. Hancock, M. Vaughn, N. Merchant, J.M. Lowe, J. Fischer, L. Liming, J. Taylor, G. Turner, C.B. Hammond, E. Skidmore, M. Packard, T. Miller, I. Foster, P. Rad, S. Mehringer. 2017. *Jetstream Stakeholder Advisory Board Meeting February 2017: Presenters' Report*. (PTI Technical Report PTI-TR17-001) Bloomington, IN: Indiana University. <http://hdl.handle.net/2022/21247>

Stewart, C.A., Hancock, D.Y., Vaughn, M., Merchant, N., Fischer, J., Lowe, J.M., Liming, L., Taylor, J., Afgan, E., Turner, G., Skidmore, E., Beck, B.W. & Foster, I. (2017). *Jetstream (NSF Award 1445604) Year Program Year 3 Annual Report (Dec 1, 2016 – Nov 30, 2017)* (PTI Technical Report PTI-TR17-008). Bloomington, IN: Indiana University. <http://hdl.handle.net/2022/21854>

Stewart, C.A., Plale, B., Welch, V., Pierce, M., Fox, G., Hancock, D.Y., Henschel, R., Link, M.R., Miller, T., Wernert, E.A., Boyles M.J., Fulton, B., Weakley, L. M., Ping, R.J., Gniady, T., Snapp-Childs, W. (2017). Pervasive Technology Institute Annual Report: Research Innovations and Advanced Cyberinfrastructure Services in Support of IU Strategic Goals During FY 2017. PTI Technical Report PTI-TR17-007. <http://hdl.handle.net/2022/21809>

2016

Stewart, C.A., Foster, I., Merchant, N.C., Taylor, J., & Vaughn, M.W. “High Performance Computing System Acquisition: Jetstream – A Self-Provisioned, Scalable Science and Engineering Cloud Environment (Year 1 Annual Report),” Indiana University, Bloomington, IN. PTI Technical Report PTI-TR16-001, February 2016. <http://hdl.handle.net/2022/20746>

Stewart, C.A., Hancock, D.Y., Vaughn, M., Merchant, N., Lowe, J.M., Fischer, J., Liming, L., Taylor, J., Afgan, E., Hammond, C.B., Skidmore, E., Foster, I. (2016). Jetstream (NSF Award 1445604) Year Program Year 2 Annual Report (Dec 1, 2015 – Nov 30, 2016) (PTI Technical Report PTI-TR16-008). Bloomington, IN: Indiana University. <http://hdl.handle.net/2022/21194>

Stewart, C.A., Plale, B., Welch, V., Fox, G.C., Link, M., Miller, T., Wernert, E.A., Boyles M.J., Fulton, B., Hancock, D.Y., Henschel, R., Link, M.R., Michael, S.A., Pierce, M., Ping, R.J., Gniady, T., Miksik, G., & Snapp-Childs, W. 2016. *Pervasive Technology Institute annual report: Research innovations and advanced cyberinfrastructure services in support of IU strategic goals during FY 2016* (PTI Technical Report PTI-TR16-007). <http://hdl.handle.net/2022/21162>

2015

Hallock, B.; R. Knepper; C.A. Stewart. 2015. *Workshop Report: Campus Bridging: Reducing Obstacles on the Path to Big Answers*. <http://hdl.handle.net/2022/20538>.

Stewart, C.A., Plale, B., Welch, V., Link, M., Miller, T., Wernert, E.A., Boyles M.J., Fulton, B., Hancock, D.Y., Henschel, R., Link, M.R., Michael, S.A., Pierce, M., Ping, R.J., Gniady, T. *Indiana University's advanced cyberinfrastructure in service of IU strategic goals: Activities of PTI during FY2015* Indiana University, Bloomington, IN. (PTI Technical Report PTI-TR15-008) Dec 2015. <http://hdl.handle.net/2022/20566>

Hancock, D.Y., M.R. Link, C.A. Stewart, G.W. Turner. 2015. *Acceptance Test for Jetstream Test Cluster - Jetstream-Arizona (JA) Dell PowerEdge Test and Development Cluster*. (PTI Technical Report PTI-TR15-007). Indiana University, Bloomington IN. 2015. <http://hdl.handle.net/2022/20355>

Link, M.R., Hancock, D.Y., Simms, S.C., Henschel, R., Michael, S.A., Fulton, B., Stewart, C.A. *Use of IU parallel computing resources and high performance file systems - July 2013 to Dec 2014*. Indiana University, Bloomington, IN. (PTI Technical Report PTI-TR15-001) Feb 2015. <http://hdl.handle.net/2022/19278>

Stewart, C.A., Link, M.R., Wernert, E.A., Barnett, W.K., Miller, T., Hancock, D.Y., Henschel, R., Michael, S.A., Pierce, M., Boyles, M.J., Fulton, B., Ping, R.J. 2015. *Indiana University Pervasive Technology Institute cyberinfrastructure in service of IU strategic goals: Activities Research Technologies Division of UITS and National Center for Genome Analysis Support in FY2014*. Indiana University, Bloomington, IN. (PTI Technical Report PTI-TR15-002), Jan 2015. <http://hdl.handle.net/2022/19279>

Stewart, C. A., T. Miller. 2015. *IU PTI/UITs Research Technologies Annual Report: FY 2014 (short version)*. <http://hdl.handle.net/2022/20483>

Stewart, C.A., T. Miller, P. Blood, J. Tillotson, W. Froelich, L. DeStefano, L. Rivera. 2014. *XSEDE 12 Conference Final Report* <http://hdl.handle.net/2022/18493>

2014

Barnett, W.K., Doak, T.G., and Stewart, C.A. 2014. *National Center for Genome Analysis Program Year 3 Report – September 15, 2013-September 14, 2014*. Indiana University, Bloomington, IN. (PTI Technical Report PTI-TR14-005). <http://hdl.handle.net/2022/18513>

Barnett, W. K., LeDuc, R. D., Stewart, C. A. *National Center for Genome Analysis Program Year 2 Report – September 15, 2012-September 14, 2013*. 2014. Indiana University. <http://hdl.handle.net/2022/17387>

Ping, R. J., Miller, T., Plale, B., Stewart, C. A. 2014. *2013 Annual report on training, education, and outreach activities of the Indiana University Pervasive Technology Institute and affiliated organizations*. Indiana University. <http://hdl.handle.net/2022/17581>

Miller, T; Stewart, C. A. Economic development by the Indiana University Pervasive Technology Institute, Pervasive Technology Labs, and the Research Technologies Division of University Information Technology Services during FY 2012/2013. 2014. <http://hdl.handle.net/2022/18640>

Stewart, C.A.; W.K. Barnett; M.R. Link; G. Shankar; T. Miller; S. Michael; R. Henschel; M.J. Boyles; E. Wernert; R. Quick. Services and support for IU School of Medicine and other Clinical Affairs Schools provided by the Research Technologies Division of UITs and the Advanced Biomedical Information Technology Core in FY 2013 – Condensed Version. Indiana University. 2014. <http://hdl.handle.net/2022/17429>

2013

Barnett, W.K., C. Ganote, M. Vaughn, R.D. LeDuc, C.A. Stewart. 2013. *National Center for Genome Analysis Program Year 1 Report – September 15, 2011 - September 14, 2012*. Indiana University, Bloomington, IN. <https://scholarworks.iu.edu/dspace/handle/2022/15340>.

Floyd, M.J., Seiffert, K., Stewart, C.A., Turner, G., Cromwell, D., Hancock, D.Y., Kallback-Rose, K., Link, M.R., Simms, S., Williams, T. 2013. *Storage Briefing: Trends and IU*. <https://scholarworks.iu.edu/dspace/handle/2022/18626>

Henschel, R., C.A. Stewart, T. William, M. Müller, and W. Nagel. “Report about the collaboration between UITs/Research Technologies at Indiana University and the Center for Information Services and High Performance Computing at Technische Universität Dresden, Germany,” Indiana University, Bloomington, IN. PTI Technical Report PTI-TR13-005, Jul 2013. <http://hdl.handle.net/2022/16670>

Ping, R., T. Miller, E.A. Wernert, and C.A. Stewart. 2013. *IEEE Cluster 2013 Conference final report*. <http://hdl.handle.net/2022/17580>

Lifka, D., I. Foster, S. Mehringer, M. Parashar, P. Redfern, C. A. Stewart, S. Tuecke. 2013. *XSEDE Cloud Survey Report*. <http://hdl.handle.net/2022/25307>

Link, M.R., D.Y. Hancock, K. Seiffert, S. Simms, S. Michael, C.A. Stewart. 2013. *Usage of Indiana University computation and data cyberinfrastructure in FY 2011/2012 and assessment of future needs*. Indiana University, Bloomington, IN. <http://hdl.handle.net/2022/16604>

Dreher, P., C.A. Stewart, J.M. Pepin, G.T. Almes, M. Mundrane, S.C. Ahalt, Stanley C. 2013. *Final report on accomplishments of a Task Force on Campus Bridging sponsored workshop: Campus Leadership Engagement in Building a Coherent Campus Cyberinfrastructure*. Indiana University, Bloomington, IN. <https://scholarworks.iu.edu/dspace/handle/2022/15467>

Stewart, C. A., Barnett, W. K., Link, M. R., Shankar, G., Miller, T., Michael, S., Henschel, R., Boyles, M. J., Wernert, E., Quick, R. 2013. *Services and support for IU School of Medicine and Clinical Affairs Schools by the UITS/PTI Advanced Biomedical Information Technology Core and Research Technologies Division in FY 2013 - Extended Version*. <http://hdl.handle.net/2022/17216>

Wernert, J., E.A. Wernert, C.A. Stewart. 2013. *Models for Sustainability for Robust Cyberinfrastructure Software - Software Sustainability Survey*. PTI Technical Report PTI-TR13-007. <http://hdl.handle.net/2022/17313>

2012

Stewart, C.A., T. Miller, D.Y. Hancock, S. Marru, M. Pierce, M.R. Link, S.C. Simms, K. Seiffert, J. Wernert and J. Bolte. 2012. *Indiana University Pervasive Technology Institute – Research Technologies: XSEDE Service Provider and XSEDE subcontract report (PY1: 1 July 2011 to 30 June 2012)*. Indiana University, Bloomington, IN. <http://hdl.handle.net/2022/14702>

Stewart, C.A., M.R. Link, E. Wernert, W.K. Barnett and T. Miller. 2012. *Information technology in support of research, scholarship, and creative activities: A strategic plan for Research Technologies – a division of UITS and a PTI Service & Cyberinfrastructure Center (Revision 1.1)*. (PTI-TR12-007-01), Indiana University, Bloomington, IN. <http://hdl.handle.net/2022/14596>

Barnett, W.K., G. Shankar, D.Y. Hancock, M. Allen, K. Seiffert, M. Boyles, J.L. Rogers, E. Wernert, M.R. Link, C.A. Stewart. 2012. *2012 Annual Report - Advanced Biomedical Information Technology Core*. <https://scholarworks.iu.edu/dspace/handle/2022/15229>.

Miller, T., B. Plale and C.A. Stewart. *Annual report on training, education, and outreach activities of the Indiana University Pervasive Technology Institute and affiliated organizations*. 2012. <http://hdl.handle.net/2022/14132>

Henschel, R., S.C. Simms, D. Hancock, S. Michael, T. Johnson, N. Heald, T. William, D.K. Berry, M. Allen, R. Knepper, M. Davy, M.R. Link and C.A. Stewart. *Technical Report: Report on Lustre use across an experimental 100Gb network spanning 2,175 mi*. Indiana University. 2012. <http://hdl.handle.net/2022/14137>

Stewart, C.A., Link, M.R., Henschel, R., Hancock, D.Y., Li, H. 2012. *Technical Report: Benchmarking an HP DL580 cluster at Indiana University (Mason)*. <http://hdl.handle.net/2022/14078>

Stewart, C.A., M.R. Link, D.S. McCaulay, R. Henschel, D. Hancock. *Technical Report: Acceptance Test for FutureGrid Cray XT5m at Indiana University (X-ray)*, Indiana University, Bloomington, IN. (PTI Technical Report PTI-TR12-005), Mar 2012. <http://hdl.handle.net/2022/14267>

Stewart, C. A., Miller, T., Blood, P., Tillotson, J., Froelich, W., DeStefano, L., Rivera, L. 2012. *XSEDE 12 Conference Final Report*. Indiana University. <http://hdl.handle.net/2022/18493>

2011

Stewart, C.A. and T. Miller. 2011. *Economic development by the Indiana University Pervasive Technology Institute, Pervasive Technology Labs, and the Research Technologies Division of University Information Technology Services September 1999-June 2011: A public report*. Indiana University, Bloomington, IN. 2011. <http://hdl.handle.net/2022/13559>

Almes, G.T., Jent, D., Stewart, C.A. 2011. *Campus Bridging: Data and Networking Issues Workshop Report*. <http://hdl.handle.net/2022/13200>. Available as print-on-demand book from: <https://www.createspace.com/3592681>

Barnett, W., V. Welch, A. Walsh and C.A. Stewart. *A Roadmap for Using NSF Cyberinfrastructure with InCommon*. 2011. <http://hdl.handle.net/2022/13024> or <http://www.incommon.org/nsfroadmap.html>. Available as print-on-demand book from <https://www.createspace.com/3630011>

Barnett, W., V. Welch, A. Walsh and C.A. Stewart. *A Roadmap for Using NSF Cyberinfrastructure with InCommon: Abbreviated Version*. 2011. <http://hdl.handle.net/2022/13025> or <http://www.incommon.org/nsfroadmap.html>

Dreher, P., S.C. Ahalt, G. Almes, M. Mundrane, J. Pepin and C.A. Stewart, (eds.), 2011. *Campus Bridging: Campus Leadership Engagement in Building a Coherent Campus Cyberinfrastructure Workshop Report*. 2011. <http://hdl.handle.net/2022/13194>

NSF Advisory Committee for Cyberinfrastructure Task Force on Campus Bridging. *Final Report*. 2011. https://www.nsf.gov/cise/oac/taskforces/TaskForceReport_CampusBridging.pdf Available as print-on-demand book from: <https://www.createspace.com/3597300> [Stewart chaired this task force and led writing of this report]

Stewart, C.A., D.S. Katz, D.L. Hart, D. Lantrip, D.S. McCaulay and R.L. Moore. *Technical Report: Survey of cyberinfrastructure needs and interests of NSF-funded principal investigators*. 2011. <http://hdl.handle.net/2022/9917>

Stewart, C.A., D.S. McCaulay, S. Jul and R.L. Moore. *Technical Report: TeraGrid eXtreme Digital Campus Bridging Requirements Elicitation Meeting*. 2011. <http://hdl.handle.net/2022/13026>

Henschel, R.; Stewart, C.A.; Link, M.R.; McCaulay, D. S.; Hancock, D.Y. 2011. *Technical Report: Acceptance Test for FutureGrid IBM iDataPlex at Indiana University (India)*. <http://hdl.handle.net/2022/13429>

2010

Stewart, C.A., G.T. Almes, D.S. McCaulay and B.C. Wheeler, eds., 2010. *Cyberinfrastructure Software Sustainability and Reusability Workshop Final Report*. <https://scholarworks.iu.edu/dspace/handle/2022/6701>. Also available as print on demand hardcopy from <https://www.createspace.com/3506064>

Stewart, C.A. *Progress Report on Implementation of Recommendations from the Indiana University Cyberinfrastructure Research Taskforce*. 2010. <http://hdl.handle.net/2022/8974>

2009

Dreher, P., V. Agarwala, S. Ahalt, G. Almes, S. Fratkin, T. Hauser, J. Odegard, J. Pepin, and C.A. Stewart. *Developing a Coherent Cyberinfrastructure from Local Campuses to National Facilities: Challenges and Strategies*. 2009. <http://hdl.handle.net/2022/5122>

Stewart, C.A.; Link, M.R. ; McCaulay, D. SS.; Rodgers, G.; Turner, G.; Hancock, D.Y.; Wang, P.; Saied, F.; Pierce, M.; Aiken, R.; Mueller, M.S.; Jurenz, M.; Lieber, M.; Tillotson, J.; Plale, B.A. 2009. *Application benchmark results for Big Red, an IBM e1350 BladeCenter Cluster*. <http://hdl.handle.net/2022/5125>

Stewart, C.A., S.C. Simms, C. Pilachowski, and R. Bramley. 2009. *Acquisition of a High-Speed, High Capacity Storage System to Support Scientific Computing: The Data Capacitor Final Report*. Indiana University, Bloomington, IN. <http://hdl.handle.net/2022/14525>

2007

Simms, S.C., M.P. Davy, C.B. Hammond, M.R. Link, C.A. Stewart, S. Teige, M.-H. Baik, Y. Mantri, R. Lord, D.F. McMullen, J.C. Huffman, K. Huffman, G. Juckeland, M. Kluge, R. Henschel, H. Brunst, A. Knuepfer, M. Mueller, P.R. Mukund, A. Elble, A. Pasupuleti, R. Bohn, S. Das, J. Stefano, G.G. Pike, D.A. Balog. 2007. *Indiana University's SC07 Bandwidth Challenge award-winning project: Using the Data Capacitor for Remote Data Collection, Analysis, and Visualization*. Indiana University, Bloomington, IN. <http://hdl.handle.net/2022/14615>

Indiana University Research Data Management Taskforce. 2007. *Report of the Indiana University Research Data Management Taskforce*. <http://hdl.handle.net/2022/3294>

McRobbie, M.A., K. Adams, M.P. Baker, G. Fox, D. Gannon, R. Heiland, A. Lumsdaine, D.F. McMullen, T. Miller, D. Siefert-Herron, C.A. Stewart, S. Wallace, M. Pierce and G. Travis. 2007. *Pervasive Technology Labs Program Report*, July 2007. <http://hdl.handle.net/2022/3210>

2006

McRobbie, M.A., K.R. Subbaswamy, D.C. Brater, and C.A. Stewart. 2006. *Indiana University Life Sciences Strategic Plan Drafting Committee*. Indiana University Life Sciences Strategic Plan. <http://hdl.handle.net/10333/391>

McRobbie, M.A., M.P. Baker, G. Fox, D. Gannon, R. Heiland, A. Lumsdaine, D.F. McMullen, T. Miller, D. Siefert-Herron, C. Stewart, and S. Wallace. *Pervasive Technology Labs Program Report*, July 2006. 2006. <http://hdl.handle.net/2022/456>

McRobbie, M.A, G. Fox, D. Gannon, M.J. Palakal, and C.A. Stewart. *Extensible Terascale Facility (ETF): Indiana-Purdue Grid (IP-Grid)*. Indiana University, Bloomington, IN, 2006. <http://hdl.handle.net/2022/472>

2005

McRobbie, M.A., K. Adams, M.P. Baker, G. Fox, D. Gannon, R. Heiland, A. Lumsdaine, D.F. McMullen, C.A. Stewart, and S. Wallace. 2005. *Pervasive Technology Labs Program Report*, August 2005. 2005. <http://hdl.handle.net/2022/455>

2004

Stewart, C.A. *IU-IBM Protein Family Annotator Project Final Report*. 2004. <http://hdl.handle.net/2022/1830>

2003

McRobbie, M.A., R. Bramley, J.C. Huffman and C.A. Stewart. 2003. *Creation of the AVIDD Data Facility: A Distributed Facility for Managing, Analyzing and Visualizing Instrument-Driven Data (AVIDD)*. Indiana University, Bloomington, IN. <http://hdl.handle.net/2022/477>

Stewart, C.A. *IU-IBM DiscoveryLink Project Final Report*. 2003. <http://hdl.handle.net/2022/1831>

Stewart, C.A., M. Papakhian, D. Hart, A. Shankar, A.D. Arenson, D.F. McMullen, M. Palakal, M. Dalkilic and P. Ortoleva. 2003. *2003 Report on Indiana University Accomplishments supported by Shared University Research Grants from IBM, Inc.* <http://hdl.handle.net/2022/2186>

Cruise, R., D. Hart, M. Papakhian, R. Repasky, J. Samuel, A. Shankar, C.A. Stewart and E. Wernert. 2003. *University Information Technology Services' Advanced IT Facilities: The least every researcher needs to know*. M. Lingwall, ed., Indiana University, Bloomington, IN. <http://hdl.handle.net/2022/14766>

2002

Cruise, R., D. Hart, M. Papakhian, R. Repasky, J. Samuel, A. Shankar, C.A. Stewart and E. Wernert. 2002. *INGEN's advanced IT facilities: The least you need to know*. M. Lingwall, ed., Indiana University, Bloomington, IN. <http://hdl.handle.net/2022/15221>

2000

Peebles, C.S., C.A. Stewart, G. Bernbom, D.F. McMullen, A. Shankar, J.V. Samuel, J. Daniels, M. Papakhian, D. Hart, J. Walsh and E. Wernert. *Research and Academic Computing Implementation Plan*. Indiana University. 2000. <http://hdl.handle.net/2022/15223>

Stewart, C.A., R. Bramley, G. Bernbom, J.W. Dunn, Z. Meglicki, D.F. McMullen, D. Hart and M. Papakhian. 2000. *Indiana University Shared University Research grants - Report on Accomplishments*. <http://hdl.handle.net/2022/2185>

COMMENTARIES, POSITION PAPERS, AND CONGRESSIONAL TESTIMONY

Stewart, C.A. 2017. Addressing the national need for more diversity and aggregate investment in cyberinfrastructure supporting open science and engineering research. Indiana University, Bloomington, IN. PTI Technical Report PTI-TR17-002. <http://hdl.handle.net/2022/21612>

Stewart, C.A. 2016. Preserving Scientific Software . . . in a Usable Form? EDUCAUSE review E-content. <https://er.educause.edu/articles/2016/10/preserving-scientific-software-in-a-usable-form>

Stewart, C.A., Barnett, W.K., Shekar, A., Sheehan, V., Wasitis, D.A., Wheeler, B.C. 2014. Indiana University's Response to House Energy and Commerce Committee Request for Suggestions: 21st Century Cures: Leveraging Technology to Accelerate the #Path2Cures. <http://hdl.handle.net/2022/18510>

Stewart, C.A. State of the Coalition for Academic Scientific Computing (CASC) – 2008. 2008. <http://www.hpcwire.com/offthewire/State-of-the-Coalition-for-Academic-Scientific-Computing-CASC--2008-37099739.html>

Coalition for Academic Scientific Computation. The future of the TeraGrid and the national advanced cyberinfrastructure: a perspective from the Coalition for Academic Scientific Computation. 2008. <http://hdl.handle.net/2022/3082>

Stewart, C.A. Testimony before the United States House of Representatives Committee on Science and Technology Hearing on Leadership Under Challenge: Information Technology R&D in a Competitive World (2007 report of the President's Council of Advisors on Science and Technology). 2008. <http://hdl.handle.net/2022/5124>

Coalition for Academic Scientific Computation. Opportunities for Biomedical Research and the NIH through High Performance Computing and Data Management. 2003. <http://hdl.handle.net/2022/5123>

BOOKS, JOURNAL ISSUES, CONFERENCE & WORKSHOP PROCEEDINGS EDITED

Stewart, C.A. and G. Bertoline. I-Light: A Network for Collaboration Between Indiana University and Purdue University. In: *Proceedings of the 2005 I-Light Conference*. (Bloomington, IN, 2005). E.A. Wernert, G.R. Bertoline and G.S. Moore, eds. <http://hdl.handle.net/2022/435>

Lehner, W., N. Meyer, A. Streit, C. Stewart (eds.). 2004. *Euro-Par 2006 Parallel Processing: Workshops: In CoreGRID 2006, UNICORE Summit 2006, Petascale Computational Biology and Bioinformatics*, Dresden, Germany (Lecture Notes in Computer Science). Springer-Verlag Berlin Heidelberg.

SPECIAL ISSUE: Bioinformatics: transforming biomedical research and medical care. *Communications of the ACM*. 47(11), November 2004. ISSN:0001-0782. <http://cacm.acm.org/magazines/2004/11>

Peromyscus Newsletter. Co-editor, 1997-1998. <http://stkctr.biol.sc.edu/Peromyscus.Newsletter.htm>

OTHER PUBLICATIONS (NOT PEER REVIEWED)

Adams, K.H., R. Bramley, J. Dunn, D. Gannon, J. Holloway, J.N. Huffman, A. Jafari, D. Jung-Gribble, D.F. "Rick" McMullen, M.A. McRobbie, G. Meglicki, D. Pearson, A. Robel, C.A. Stewart, D. Vernon, S.S. Wallace, J. Williams, E.A. Wernert. 1997. Beyond Boundaries: Indiana University High Performance Computing and Communications. Indiana University, Bloomington, IN. <http://hdl.handle.net/2022/26291>

Lifka, D. I. Foster, S. Mehringer, M. Parashar, P. Redfern, C.A. Stewart, S. Tueke. 2013. XSEDE Cloud Survey Report. Technical Report. <http://hdl.handle.net/2022/25307>

Lingwall, M., and C.A. Stewart. 2007. The Promise of Petascale Computing. http://www.bio-itworld.com/BioIT_Article.aspx?id=51184

Stewart, C.A. 1992. Statistical and mathematical computing at IU: A look back; a look forward. UCS Times Nov-Dec 1992: 1-3. Published by University Computing Services, Indiana University Bloomington. <http://hdl.handle.net/2022/13618>

Stewart, C.A. 1991. More math software; better support. UCS Times Nov-Dec 1991: 20. Published by University Computing Services, Indiana University Bloomington. <http://hdl.handle.net/2022/13610>

Stewart, C.A., 1991. Big improvements in statistical software support. UCS Times Sep-Oct 1991: 15-16. Published by University Computing Services, Indiana University Bloomington. <http://hdl.handle.net/2022/13609>

Geva, S., A. Chalker, C.W. Hillegas, D. Petravick, A. Sill, C.A. Stewart. 2021. Survey form and methods for second CASC survey of academic research computing and data center usage. <https://doi.org/10.7302/1271>

Tutorials

Stewart, C.A. and M. Dahan. 2008. *Introduction to Parallel Computing on the TeraGrid Part 1: the TeraGrid and Parallel Computing concepts* (Tutorial presentation) TeraGrid08 Conference (Las Vegas, NV, 9 Jun 2008). <http://hdl.handle.net/2022/13990>

Stewart, C.A. 2007. *Resources that matter to you: accessing IU's Big Red supercomputer and massive data storage system via the TeraGrid*. (Tutorial presentation) IEEE 7th International conference on BioInformatics & BioEngineering (Boston, MA, 14 Oct 2007). <http://hdl.handle.net/2022/13992>

Stewart, C.A. 2006. *Scientific Data Management*. (Tutorial presentation) PittCon 2006 (Orlando, FL, 13 Mar 2006). <http://hdl.handle.net/2022/13993>

Stewart, C.A. 2005. *Introduction to computational biology*. (Tutorial presentation) High Performance Computing Center (Stuttgart, Germany, 1 July 2005). <http://hdl.handle.net/2022/13995>

Stewart, C.A. 2005. *Scientific Data Management*. (Tutorial presentation) PittCon 2005 (Orlando, FL, 3 Mar 2005). <http://hdl.handle.net/2022/13996>

Stewart, C.A., R. Repasky and A.D. Arenson. 2004. *Open source tools for computational biology*. (Tutorial presentation) IEEE/ACM SC04 Conference (Pittsburgh, PA, 7 Nov 2004). <http://hdl.handle.net/2022/13997>

Stewart, C.A. 2004. *Scientific Data Management*. (Tutorial presentation) PittCon 2004 (Chicago, IL, 10 Mar 2004). <http://hdl.handle.net/2022/13998>

Stewart, C.A. 2003. *Computational Biology*. (Tutorial presentation) IEEE/ACM SC03 Conference (Phoenix, AZ, 14 Nov 2003). <http://hdl.handle.net/2022/14000>

Stewart, C. 2002. *Scientific Data Management*. (Tutorial presentation) Laboratory Information Management Systems Conference (LIMS 2002) (Philadelphia, PA, 2 May 2002).
<http://hdl.handle.net/2022/14001>

Stewart, C.A. 2000. *Computational Biology*. (Tutorial presentation) IEEE/ACM SC00 Conference (Dallas, TX, Nov 2000). <http://hdl.handle.net/2022/14007> (Presented as part of tutorial Simon, H.D., M.D. Zorn, S.J. Spengler, B.K. Shoichet, C.A. Stewart, Dubchak I.L. and A.P. Arkin. *Computational Biology and High Performance Computing 2000 (Technical report LBNL-47001)*. 2000. Presentation. Presented at: SC2000 (Dallas, TX, 4-10 Nov 2000).
<http://hdl.handle.net/2022/15225>)

Hewitt, D., and C.A. Stewart. *Online Help Systems and Knowledge Bases: Building a Virtual Helpdesk*. Half-day tutorial given at CAUSE96, San Francisco, Dec. '96.
<http://hdl.handle.net/2022/13611>

Courses Taught

Stewart, C.A. 2003. Einführung in die Bioinformatik. Sommer I, Universität Stuttgart, Stuttgart, Germany.

Online Educational Materials Published

Stewart, C.A., S. Harsha, B. Cooper, E. Shook. 2021 Cyberinfrastructure - Beginner Hour of CI Lesson. Jupyter Notebook interactive lesson: <https://www.hourofci.org/beginner-lessons>. Lesson Plan:
<https://drive.google.com/file/d/1c05cHbGw3ii3p2GZGSJkbS81nGdJzev8/view?usp=sharing>

Data Sets Published

Stewart, C.A.; B. Plale, J. Fischer. 2020. Datasets Published by the IU Pervasive Technology Institute 1999-2019. <http://hdl.handle.net/2022/25802>.

Costa, C.M., J.A. Wernert, D.F. McMullen, C.A. Stewart, P.D.; R. Sinkovits; S. Mehringer, R. Knepper, G. Rogers. 2020. Dataset: XSEDE Return on Investment Data and Analysis (July 2014 to August 2019).

Stewart, Craig. 2018. IU Pervasive Technology Institute (pti.iu.edu) – example Use Case Templates. Document template. <http://hdl.handle.net/2022/22136>

Welch, V., Sheppard, R., Lingwall, M.J., Stewart, C.A. 2011. Current structure and past history of US cyberinfrastructure (data set and figures). <http://hdl.handle.net/2022/13136>

Poster Presentations

Stewart, C.A., J.A. Wernert, E.A. Wernert, W.K. Barnett. 2013. *A Perspective on Open Source Software Sustainability* (Poster). Presented at Presented at EDUCAUSE, October 27–30, 2015, Indianapolis, IN

Doak, T., R. LeDuc, L.-S. Wu, C.A. Stewart, R. Henschel and W.K. Barnett. 2012. *The National Center for Genome Analysis Support* (Poster). Presentation. Presented at International Conference on Genomics in the Americas (Philadelphia, PA, 27 Sept 2012). <http://hdl.handle.net/2022/14769>

Doak, T., R. LeDuc, L.-S. Wu, C.A. Stewart, R. Henschel and W.K. Barnett. 2012. *The National Center for Genome Analysis Support* (Poster). Presented at International Society of Protistologists -- North American Section (North Carolina Central University, Durham, NC, 22 Sept 2012). <http://hdl.handle.net/2022/14769>

Doak, T., R. LeDuc, L.-S. Wu, C.A. Stewart, R. Henschel and W.K. Barnett. 2012. *The National Center for Genome Analysis Support* (Poster). Presented at New Directions for Investigating Biodiversity of Ciliates (North Carolina Central University, Durham, NC, 19 Sept 2012). <http://hdl.handle.net/2022/14769>

Doak, T. G., Wu, L.-S., Stewart, C.A., Henschel, R., Barnett, W.K. 2012. *National Center for Genome Analysis Support* (Poster). Presented at the Pacific Symposium on Biocomputing Kona, HI, Jan 5 2012. <http://hdl.handle.net/2022/14539>

Doak, T. G., Wu, L.-S., Stewart, C.A., Henschel, R., Barnett, W.K. 2012. *National Center for Genome Analysis Support* (Poster). Presented at Plant and Animal Genome Conference San Diego CA, Jan 16, 2012. <http://hdl.handle.net/2022/14539>

McCaulay, D.S., M.R. Link, G.W. Turner, D.Y. Hancock, M. Morris and C.A. Stewart. 2006. *Powerful New Research Computing System Available via the TeraGrid*. Presented at IEEE/ACM SC06 Conference (Tampa, FL, 14 Nov 2006). <http://hdl.handle.net/2022/13994>

Stewart, C.A., D. Hart, D. K. Berry. 1998. *Maximum likelihood estimation of phylogenetic relationships with geographically distributed supercomputers*. Presented at CASCON 98, November 30 - December 3, 1998, Toronto, Canada.

Abstracts

Simms, S.C., M. Davy, B. Hammond, M.R. Link, C.A. Stewart, S. Teige, M.-H. Baik, Y. Mantri, R. Lord, D.F.R. McMullen, J.C. Huffman, K. Huffman, G. Juckeland, M. Kluge, R. Henschel, H. Brunst, A. Knuepfer, M. Mueller, P.R. Mukund, A. Elble, A. Pasupuleti, R. Bohn, S. Das, J. Stefano, G.G. Pike and D.A. Balog. 2007. *Using the Data Capacitor for Remote Data Collection, Analysis, and Visualization*. IEEE/ACM 2007 Conference (Reno, NV, 13 Nov 2007). <http://hdl.handle.net/2022/13991>

McCaulay, D.S., M.R. Link, G.W. Turner, D.Y. Hancock, M. Morris and C.A. Stewart. 2006. *Powerful New Research Computing System Available via the TeraGrid*. (Presentation) IEEE/ACM SC06 Conference (Tampa, FL, 14 Nov 2006). <http://hdl.handle.net/2022/13994>

Hart, D., J. Palmer, W. Fischer, S. Turner, D.K. Berry, E. Wernert, C.A. Stewart, T.W. Tan, M. Sakharkar, L.X. Zhang, M. Buchhorn and T. Potter. *Maximum Likelihood Analysis of Phylogenetic Data*. 1998. Presentation. Presented at: IEEE/ACM SC98 Conference (Orlando, FL, Nov 1998). <http://hdl.handle.net/2022/13893>

Hart, D., D.A. Lauer, J.W. Naab, C.A. Stewart and D.F. McMullen. PC Clusters: Performance Comparisons in NT and Linux Environments. 2000. Presentation. Presented at: Society for Industrial and Applied Mathematics First SIAM Conference (Washington D.C., 24 Sept 2000). <http://hdl.handle.net/2022/15224>

Hart, D., Palmer, J., Fischer, W., Turner, S.; Berry, D.K., Wernert, E., Stewart, C.A., Tan, T.W., Sakharkar, M., Zhang, L.X., Buchhorn, M., Potter, T. 1998. Maximum Likelihood Analysis of Phylogenetic Data. Presented at IU Display in Exhibitor's Forum at SC98 (Orlando, FL, 7-13 Nov, 1998). <http://hdl.handle.net/2022/13893> or <http://www.startap.net/igrid98/maxLikeAnApbionet98.html>

Stewart, C.A. 1988. Diurnal variation in minimal thermal conductance of the white footed mouse (*Peromyscus leucopus*). American Society of Mammologists Annual Meeting, Clemson University, Clemson, SC.

Stewart, C.A. 1982. Age-specific changes in diet and Cesium-127 whole body concentration in turtles (*Pseudemys scripta*) inhabiting a contaminated swamp. Midwest Ecology Symposium, Michigan State University, East Lansing, MI

Valentine, D.W. and C.A. Stewart. A preliminary analysis of diet and resource partitioning in *Etheostoma caeruleum* Storer and *Etheostoma flabellare* Rafinesque in Rock Run, Clark County, Ohio. Ohio Journal of Science April Program Abstracts. Ohio Academy of Science 90th Annual Meeting. 1981. <http://hdl.handle.net/2022/15227>

Reash, R.J. and C.A. Stewart. Preliminary investigations of longitudinal distribution and fish species diversity in Rock Run, Clark County, Ohio. (Abstract). *Bios*, 52(3), 178. 1981. <http://hdl.handle.net/2022/15228>

Von Welch, Alan Walsh, William Barnett, and Craig A. Stewart. 2011. A roadmap for using NSF cyberinfrastructure with InCommon. In Proceedings of the 2011 TeraGrid Conference: Extreme Digital Discovery (TG '11). ACM, New York, NY, USA, , Article 28 , 2 pages. DOI=<http://dx.doi.org/10.1145/2016741.2016771>

Presentations and Online Videos

2022

Stewart, Craig A., 2022. Metrics of financial effectiveness: Return On Investment in XSEDE, a national cyberinfrastructure coordination and support organization. Presentation. Presented at: Practice and Experience in Advanced Research Computing (PEARC '22), July 10–14, 2022, Boston, MA, USA. Available at <https://hdl.handle.net/2142/114363>.

Stewart, Craig A., 2022. Return on Investment in Cyberinfrastructure: State of the Art. Presentation. Presented at: Practice and Experience in Advanced Research Computing (PEARC '22), July 10–14, 2022, Boston, MA, USA. Available at <https://hdl.handle.net/2142/114362>.

Stewart, Craig A. 2022. ROI for Federal Investment in XSEDE. Presentation. Presented at NCSA All-Hands meeting (virtual). 15 April 2022. Available at <https://hdl.handle.net/2142/114364>.

Stewart, Craig A. 2022. ROI for Federal Investment in XSEDE – Update for Service Provider Forum. XSEDE SP Forum meeting (virtual). 20 January 2022. Available at <https://hdl.handle.net/2142/114367>.

Stewart, Craig A. and Julie A. Wernert. 2022. XSEDE Return On Investment update. Presented at XSEDE Quarterly meeting (virtual) 14 June 2022. Available at <https://hdl.handle.net/2142/114368>.

2021

Stewart, Craig A. 2021. ROI for Federal Investment in XSEDE – Update for June XSEDE quarterly. Presented at XSEDE Quarterly meeting (virtual). 21 June 2021. Available at <https://hdl.handle.net/2142/114365>.

Stewart, C.A. 2021. Cancer treatment, advanced computing, and the NIH ITCR program: views from a patient and participant. Presented at Department of Medical and Molecular Genetics, IU School of Medicine, online, 17 February 2021. <http://hdl.handle.net/2022/26287>.

2020

Stewart, C.A. 2020. Cancer research, cancer therapy, and HPC – a first-hand view. Presented at Arizona State University Research Technology Summit, Tempe, AZ, 4 March 2020. <http://hdl.handle.net/2022/25241>

Stewart, Craig A. 2020. ROI reset and expansion – discussions. Presented at XSEDE Quarterly meeting (virtual) 10 December 2020. Available at <https://hdl.handle.net/2142/114366>.

2019

Stewart, C.A. 2019. *Return on Investment and use case introduction for Microsoft Cloud Research Support Engineers*. Presented at Microsoft Campus Connect Conference, Workshop for Cloud Research Support Engineers, 7 February 2019, Redmond, WA. <http://hdl.handle.net/2022/24427>

Stewart, C.A. 2019. *Return on Investment for three cyberinfrastructure facilities: a local campus supercomputer; the NSF-funded Jetstream cloud system; and XSEDE*. Presented at Spring Quarterly meeting of XSEDE, Virtual (web) meeting, 6 March 2019. <http://hdl.handle.net/2022/22590>

Stewart, C.A. 2019. *Cyberinfrastructure Resource Integration*. Presented at XSEDE Advisory Board, Virtual (web) meeting, 6 March 2019. <http://hdl.handle.net/2022/24452>

Stewart, C.A. 2019. *Humanware advancing research in the cloud – HARC*. Presented at CASC spring meeting, 20 March 2019, Alexandria, VA. <http://hdl.handle.net/2022/24428>

Stewart, C.A., R.F. Meraz, & T.G. Doak. 2019. *High performance computing and medicine: A view from the front lines*. Presented at ISC-High Performance, Frankfurt, Germany, 19 June 2019. Available from: <http://hdl.handle.net/2022/23187>

Stewart, C.A. 2019. *Cyberinfrastructure Resource Integration*. Presented at XSEDE Advisory Board, Virtual (web) meeting, 26 June 2019. <http://hdl.handle.net/2022/24452>

Stewart, C.A. 2019. *My leadership journey: How I - and we - got from there to here*. Presented at Information Technology Leadership Program at Bradford Woods, Martinsville, IN, 17 July 2019. <http://hdl.handle.net/2022/23345>

Stewart, C.A. 2019. *Assessment of financial returns and non-financial impacts of investment in cyberinfrastructure*. Presented at XSEDE Quarterly meeting XSEDE Quarterly Meeting, Rosemont, IL, 9 September 2019. <http://hdl.handle.net/2022/24453>

Michael, S., and Stewart, C.A. 2019. *AI and computing: local tools @ IU, some global challenges*. Presented to Advanced Geophysics Seminar, Department of Geology, Indiana University, Bloomington, IN. 11 September 2019. <http://hdl.handle.net/2022/24451>

Stewart, C.A., and Voss, B.D. 2019. *Humans Advancing Research in the Cloud (HARC)*. Presented at fall meeting of the Coalition for Advanced Scientific Computing (CASC), The Arlington Hotel, Arlington, VA, 25 September 2019. <http://hdl.handle.net/2022/24982>

Swany, D.M., and Stewart, C.A. 2019. *High Performance Computing at IU*. Presented at Indiana National Lab Day, Hine Hall, Indiana University – Purdue University Indianapolis, 7 October 2019. <http://hdl.handle.net/2022/24984>

C.A Stewart. 2019. *Challenges in High Performance Computing and national needs and opportunities for NIST leadership*. Presented to National Institute of Standards and Technology, Gaithersburg, Maryland, 9 October 2019. <http://hdl.handle.net/2022/24456>

Stewart, C.A. 2019. *20 Jahre Zusammenarbeit unter dem Motto: „Was ist heute wichtig?“ Präsentation Folien*. Ehrenkolloquium Dr.-Prof. Wolfgang E. Nagel. Andreas-Pfitzmann-Bau - Fakultät Informatik. Technische Universität Dresden, Dresden, Deutschland. 23 Oktober 2019. PTI Technical Report PTI-TR19-001 <http://hdl.handle.net/2022/24582>

Stewart, C.A. 2019. *How Precision Health and PTI are saving lives—including mine*. Presented at the Indiana University Statewide IT Conference. 30 October 2019, Bloomington, IN. <http://hdl.handle.net/2022/24651>

Stewart, C.A. and Welch, V. 2019. *20 years of success: the Indiana University Pervasive Technology Institute with a focus on the evolution of the Center for Applied Cybersecurity Research*. Presented at the Indiana University Statewide IT Conference. 30 October 2019, Bloomington, IN. Available from: <http://hdl.handle.net/2022/24652>

Stewart, C.A. 2019. *HPC, AI, and biomedical research*. Presented at SC19: The International Conference for High Performance Computing, Networking, Storage, and Analysis. November 17–22, 2019, Denver, Colorado. 19 November 2019. <http://hdl.handle.net/2022/24983>

Stewart, C.A. and Welch, V. 2019. *20 years of success: the Indiana University Pervasive Technology Institute with a focus on the evolution of the Center for Applied Cybersecurity Research*. Presented at SC19: The International Conference for High Performance Computing, Networking, Storage, and Analysis. November 17–22, 2019, Denver, Colorado. 19 November 2019. <http://hdl.handle.net/2022/24981>

2018

Stewart, C.A., and M. Krefeldt. 2018. *Your health is a workforce issue*. <https://youtu.be/vkfjE28VSUs>

Stewart, C.A., D.Y. Hancock, J. Wernert, M.R. Link, N. Wilkins-Diehr, T. Miller, K. Gaither, W. Snapp-Childs. 2018. *Return on Investment for three Cyberinfrastructure facilities: a local campus supercomputer; the NSF-funded Jetstream cloud system; and XSEDE (the eXtreme Science and Engineering Discovery Environment)*. 2018 IEEE/ACM 11th International Conference on Utility and Cloud Computing (UCC). 17-20 December, Zurich, Switzerland. <http://hdl.handle.net/2022/22590>

Stewart, C.A. 2018. *The Indiana University Pervasive Technology Institute: A year of accomplishment*. Presentation. Presented at IU display on Exhibit Floor of SC18. SC18 The International Conference for High Performance Computing, Networking, Storage, and Analysis. Dallas, TX. 16 November 2018. <http://hdl.handle.net/2022/23205>

Stewart, C.A. 2018. *Science gateways, hybrid clouds, V4I, and distributed workflows for big data*. Presented at Indy Big Data Conference. <https://www.indybigdata.com>. 26 September 2018. Indianapolis, IN. Available from <https://scholarworks.iu.edu/dspace/handle/2022/22932>

Stewart, C.A. and Marion Krefeldt. 2018. *Your Good Health is a Workforce Issue*. PEARC '18: Practice and Experience in Advanced Research Computing, July 22–26, 2018, Pittsburgh, PA, USA. <http://hdl.handle.net/2022/22293>

Stewart, C.A. 2018. NSF Workshop on Future Cyberinfrastructure: Rethinking NSF's Computational Ecosystem for 21st Century Science and Engineering. Panel presentation: *Integration and Holistic Operations*. 30-31 May, National Science Foundation, Alexandria VA. Available from <http://hdl.handle.net/2022/22253>

Stewart, C.A. 2018. *Computing and cyberinfrastructure in support of research, scholarship, and creative activity: Forward in challenging times*. PTI Seminar – Christopher S. Peebles Memorial Lectures in Information Technology, 2 May 2018, Indiana University, Bloomington IN, 2 May 2018. Slides at <http://hdl.handle.net/2022/22192>. Presentation on video at <https://www.youtube.com/watch?v=EO0ZT1H-BpE>

2017

Stewart, C.A. 2017. *New trends in cyberinfrastructure for ecology and evolutionary biology*. IU graduate seminar in *bioinformatics*. Bloomington, IN, 29 January 2017. <http://hdl.handle.net/2022/21264>

Stewart, C.A. and D.Y. Hancock. 2017. *Next Generation Cyberinfrastructure for Biological Research*. Center for Genomics and Bioinformatics Seminar. Bloomington, IN, USA. 27 September 2017. <http://hdl.handle.net/2022/21845>

Stewart, C.A., and M. Krefeldt. 2017. *You're worth it: Putting health before work*. Presentation. IU Statewide IT Conference. <http://hdl.handle.net/2022/21849>

Stewart, C.A., M.R. Link, J. Wernert. 2017. *Measuring ROI in Cyberinfrastructure*. Presentation. Presented EDUCAUSE Annual Conference 31 Oct – 3 Nov 2017, Philadelphia, PA. <https://doi.org/10.5967/K85Q4T8S>

Stewart, C.A., D.Y. Hancock, and J. Fischer. 2017. *Jetstream Overview: What it is, and how to apply for use*. Webinar. Video at <https://www.youtube.com/watch?v=q-o8paUT4KY>. Slides from webinar available from <http://hdl.handle.net/2022/21261>

2016

Stewart, C.A. 2016. *Coevolution of biological research and CI from now till the end of Moore's Law*. Presented at Galaxy User Community Conference (GUCC) 2016, 25-29 June, Bloomington, IN. <https://www.youtube.com/watch?v=zUDY2zGtnCY&t=0s&list=PLqi-7yMgvZy9zsF6AUwr39zyLfw6PieBG&index=2>

Stewart, C.A. & Fischer, J. (2016). *Jetstream - In production & ready to go*. Talk presented at the meeting of the XSEDE Research Allocation Committee, 4 December, Orlando, FL. <http://hdl.handle.net/2022/21132>

Stewart, C.A., Hancock, D.Y., Laherty, J. 2016. *Jetstream - In production & supporting science*. Presented in IU display in Exhibition Hall at SC'16, Nov 15, Salt Lake City, Utah. <http://hdl.handle.net/2022/21090>

Stewart, C.A. 2016. *Jetstream update for CASC (Coalition for Academic Scientific Computation)*. Presented at CASC Meeting 15 September 2016, Arlington, VA. <http://hdl.handle.net/2022/21105>

Stewart, C.A. 2016. *Watson, Medicine, Health, and IU Grand Challenges*. Presented at Cook Group, Bloomington, IN, 14 September 2016. <http://hdl.handle.net/2022/21102>

Stewart, C.A. 2016. *Jetstream - An NSF-funded cloud resource for researchers working in the long tail of science*. <http://hdl.handle.net/2022/21104>. University of Wyoming, Laramie WY, 19 May 2016.

Stewart, C.A. 2016. *Cyberinfrastructure from scratch*. Presented at University of Wyoming Laramie WY, 19 May 2016. <http://hdl.handle.net/2022/21103>

Stewart, C.A. 2016. *IU cyberinfrastructure – supercomputers and clouds in the context of initiatives toward exascale*. IU Bloomington Astronomy Department symposium. Apr 26 2016. Presented at Swain Hall, Indiana University, Bloomington, IN. <http://hdl.handle.net/2022/21101>

Stewart, C.A. 2016. *Exascale—on what dimension, and why?* Invited Plenary talk, SPPEXA Annual Meeting. 26 Jan 2016 Technische Universität München. <http://hdl.handle.net/2022/20928>

2015

Stewart, C.A. 2015. *Jetstream: A national science and engineering cloud*. Presentation. Presented at University of Vermont, 23 October, 2015, Burlington, VT. <http://hdl.handle.net/2022/20439>

Stewart, C.A. 2015. *Great National Cyberinfrastructure Resources for Great Kentucky Researchers and Students*. Kentucky EPSCOR meeting, 22 May 2015, Lexington, KH. <http://hdl.handle.net/2022/22446>

Stewart, C.A. 2015. *All Together Now - The Convergence of Big Data, Cloud, and HPC: A perspective from a new cloud provider*. Presentation. Presented at Dell display at SC15 Exhibition Hall, Austin, TX, 18 Nov. <http://hdl.handle.net/2022/22447>

Stewart, C.A. 2015. *UITS Research Technologies – Services Available to Regenstrief Institute*. Presentation. Presented at Regenstrief Institute, Indiana University Purdue University Indianapolis, Indianapolis. 13 October 2015. <http://hdl.handle.net/2022/20438>.

- Stewart, C.A. 2015. *Cyberinfrastructure for Research: From campus growth to national trends (Parts I & III of III)*. Presentation. Presented at Michigan State University, East Lansing, MI. 22 October 2015. <http://hdl.handle.net/2022/20442>
- Stewart, C.A. 2015. *Cyberinfrastructure for Research: From campus growth to national trends (Part II of III)*. Presentation. Presented at Michigan State University, East Lansing, MI. 22 October 2015. <http://hdl.handle.net/2022/20443>
- Stewart, C.A. 2015. *Cyberinfrastructure for Research: New Trends and Tools (Part I of II)*. Presentation. Presented at University of Michigan, Ann Arbor, MI 21 October 2015. <http://hdl.handle.net/2022/20444>
- Stewart, C.A. *Cyberinfrastructure for Research: New Trends and Tools (Part II of II)*. Presentation. Presented at University of Michigan, Ann Arbor, MI. 21 October 2015. <http://hdl.handle.net/2022/20445>
- Stewart, C.A. 2015. *Cyberinfrastructure for Research: New Trends and Tools (Part 1 of 2)*. Presentation. University of Vermont, Burlington, VT. 30 September 2015. <http://hdl.handle.net/2022/20414>
- Stewart, C.A. 2015. *Cyberinfrastructure for Research: New Trends and Tools (Part 2 of 2)*. Presentation. University of Vermont, Burlington, VT. 30 September 2015. <http://scholarworks.iu.edu/dspace/handle/2022/20416>
- Stewart, C.A. 2015. *Jetstream Overview - XSEDE '15, part of Panel - New and emerging US cyberinfrastructure resources*. Presentation. XSEDE'15, July 26 - 30, 2015. St. Louis, MO, USA. <http://hdl.handle.net/2022/20322>; DOI: <http://dx.doi.org/10.5967/K8Z60KZ9>
- Stewart, C.A. 2015. *Jetstream - A self-provisioned, scalable science and engineering cloud environment*. Presentation. XSEDE'15, July 26 - 30, 2015. St. Louis, MO, USA. <http://hdl.handle.net/2022/20338>
- Stewart, C.A. 2015. *XSEDE Value Added, Cost Avoidance, and Return on Investment – Full Talk*. Presentation. XSEDE'15, July 26 - 30, 2015. St. Louis, MO, USA. <http://hdl.handle.net/2022/20337>
- Stewart, C.A., Roskies, R., Knepper, R., Moore, R., Whitt, J., Cockerill, T. 2015. *XSEDE Value Added, Cost Avoidance, and Return on Investment – Lightning talk*. Presentation. XSEDE'15, July 26 - 30, 2015, St. Louis, MO, USA. <http://hdl.handle.net/2022/20145>; DOI <http://dx.doi.org/10.5967/K8TD9V7F>
- Stewart, C.A. 2015. *Sustained Software for Cyberinfrastructure-Analyses of Successful Efforts with a Focus on NSF-funded Software*. Presentation. SCREAM '15. Portland, OR. 16 June 2015. <http://hdl.handle.net/2022/20159>
- Stewart, C.A. 2015. *Jetstream Overview*. For XRAC (Large Resource Allocations Committee (LRAC) and Medium Resource Allocations Committee (MRAC)). Presentation. XRAC Quarterly Meeting, New Orleans, LA. March 1, 2015. <http://hdl.handle.net/2022/19702>
- Stewart, C.A. 2015. *Campus Bridging Update*. For XSEDE Quarterly Staff Meeting. Presentation. New Orleans, LA. March 3, 2015. <http://hdl.handle.net/2022/21677>

Stewart, C.A. 2015. *UITS Research Technologies update for Bloomington Faculty Council Technology Policy Committee*. Presentation. 20 February 2015, Bloomington, IN <http://hdl.handle.net/2022/21679>

Stewart, C.A. 2015. *Indiana University Pervasive Technology Institute – briefing for CACR*. Presentation. 21 May 2015, Bloomington, IN. <http://hdl.handle.net/2022/21680>

2014

Newby, G., A. Apon, N. Berente, R. Eigenmann, S. Fratkin, D. Lifka, C.A. Stewart. 2014. *Return on investment from academic supercomputing: SC14 Panel*. Presentation. SC14 – the international conference for high performance computing, networking, storage and analysis. 21 Nov 2014. New Orleans, LA. <http://hdl.handle.net/2022/19242>

Stewart, C.A. 2014. *Big Data, Big Red II, Data Capacitor II, Wrangler, Jetstream, and Globus Online, presented to Microsoft, Inc. visiting group*. Presentation. Indiana University, Bloomington, IN. 24 Feb 2015. <http://hdl.handle.net/2022/19685>

Stewart, C.A. 2014. *Serving national scientific communities: Genome analysis as an example*. Invited keynote talk. Presentation. Zentren für Kommunikation und Informationsverarbeitung e.V. ZKI-Frühjahrstagung 25 March 2014 at Humboldt-Universität zu Berlin. <http://hdl.handle.net/2022/17383>

Stewart, C.A. 2014. *High Performance Computing Serving Life Science Research Needs*. Presentation. Presented at Universität zu Koeln. Koeln, Germany, 3 July 2014. <http://hdl.handle.net/2022/18507>

Stewart, C.A. 2014. *Serving national scientific communities - genome analysis as an example*. Presentation. ZKI-Frühjahrstagung, Berlin, Deutschland. 25 March 2014. <http://hdl.handle.net/2022/17383>

Stewart, C.A. 2014. *Cyberinfrastructure as a strategic university asset*. For Hessian HPC Competence Center Leaders. Presentation. Presented at Technische Universität Darmstadt, Darmstadt, Germany, 30 June 2014. <http://hdl.handle.net/2022/18476>

Stewart, C.A. 2014. *Information technology support for your local university community*. Presentation for IT staff of TU-Darmstadt. Presented at Technische Universität Darmstadt, Darmstadt, Germany, 30 June 2014. <http://hdl.handle.net/2022/18475>

Stewart, C.A. 2014. *XSEDE Value Added and Financial Economies*. Presentation. NSF Review of XSEDE, 17 September 2014, Arlington, VA. <http://hdl.handle.net/2022/21678>

2013

Stewart, C.A. 2013. *This was unexpected*. Keynote talk. Open Science Grid All Hands Meeting. 11 March 2013. Indianapolis, IN. <http://hdl.handle.net/2022/15469>

Stewart, C.A. 2013. *Cyberinfrastructure at IU and the IU Pervasive Technology Institute*. Presentation for Deutsche Forschungsgemeinschaft (beim Bureau in Washington, DC). <http://hdl.handle.net/2022/15470>

Stewart, C.A. 2013. *Cyberinfrastructure as a strategic university asset*. Invited Colloquium. Presented at RWTHAachen University, 23 August 2013, Aachen, Germany. <http://hdl.handle.net/2022/16743>

Stewart, C.A., and M. Alfred. 2013. *Craig Stewart and Marcus Alfred on XSEDE*.
<https://www.youtube.com/watch?v=E96mlWruATM&t=4s>

Stewart, C.A. 2013. *Craig Stewart on IU's leadership of \$5 million science gateway project*.
<https://www.youtube.com/watch?v=SGFZUpaxUY8>

2012

Stewart, C.A., M. Jacobs, B. Hallock, R. Knepper and W.K. Barnett. 2012. *Get the convenience of cloud while keeping your rights – through the IU/Penguin Computing partnership*. Presentation.
<http://hdl.handle.net/2022/14704>

Jacobs, M. and C.A. Stewart. 2012. *Penguin Computing/IU Partnership HPC “cluster as a service” and Cloud Services*. Presented at the Coalition for Academic Scientific Computation , 29 Feb 2012, Arlington, VA. <http://hdl.handle.net/2022/14441>

Stewart, C.A. 2012. *Campus Bridging*. Presentation. XSEDE (eXtreme Environment for Science and Engineering Discovery) Advisory Board Meeting (Chicago, IL, 23 Apr).
<http://hdl.handle.net/2022/14443>

Stewart, C.A. 2012. *Cyberinfrastructure Begins at Home*. Presentation. Rutgers University (New Brunswick, NJ, 20 Feb). <http://hdl.handle.net/2022/14442>

Stewart, C.A., S. Marru, R. Knepper, D.Y. Hancock, J. Wernert, C. Aikman, J. Bolte, P. Brown and T.M. Miller. 2012. *Indiana University collected XSEDE update*. Presentation. XSEDE (eXtreme Environment for Science and Engineering Discovery) Quarterly Meeting (Austin, TX, 6-7 Mar).
<http://hdl.handle.net/2022/14444>

Stewart, C.A. 2012. *What is campus bridging and why should XSEDE Campus Champions Care?* Presentation. XSEDE Campus Champions virtual meeting from Michigan City, IN, 8 June 2012. <http://hdl.handle.net/2022/14709>

Stewart, C.A. 2012. WBS 1.6.5 *Campus Bridging Program Plan*. Presentation. NSF review panel 14 June 2012. Arlington VA. <http://hdl.handle.net/2022/14710>

Stewart, C.A. 2012. *XSEDE12 closing remarks*. Presentation. XSEDE12, Chicago, IL. 16-20 July 2012 <http://hdl.handle.net/2022/14711>

Stewart, C.A. 2012. *XSEDE12 opening remarks*. Presentation. XSEDE12, Chicago, IL. 16-20 July 2012 <http://hdl.handle.net/2022/14712>

Stewart, C.A., R. Knepper, J.W. Ferguson, F. Bachmann, I. Foster, A. Grimshaw, V. Hazlewood and D. Lifka. 2012. *What is campus bridging and what is XSEDE doing about it?* Presentation. XSEDE12 (Chicago, IL, 16-20 Jul 2012). <http://hdl.handle.net/2022/14599>

Stewart, C.A. 2012. *Campus Bridging Security Challenge*. 2102. From “Panel: Security for Science Gateways and Campus Bridging.” Jim Basney, Randy Butler, Dan Fraser, Suresh Marru, Craig A. Stewart. Presentation. XSEDE12, Chicago, IL 16-20 July 2012. <http://hdl.handle.net/2022/14713>

2011

Stewart, C.A. and V. Welch. 2011. *Overview of NSF ACCI Task Force on Campus Bridging Report*. Presentation. Coalition for Academic Scientific Computation Meeting (Arlington, VA, 16 Mar 2011). <http://hdl.handle.net/2022/13421>

Stewart, C.A. 2011. *Educational Applications of Supercomputing and Cyberinfrastructure*. Presentation. KAUST Economic Development International Symposium at ISC'11 (Hamburg, Germany, June 21). <http://hdl.handle.net/2022/13365>

Stewart, C.A. 2011. *Management and organizational structure of large scale innovative projects*. Presentation. FLEET Working Group Meeting (Vienna, Austria, 19 July 2011). <http://hdl.handle.net/2022/13403>

Stewart, C.A. 2011. *Communicating with government & public stakeholders*. Presentation. FLEET Working Group Meeting (Vienna, Austria, 19 July 2011). <http://hdl.handle.net/2022/13404>

Stewart, C.A. 2011. *A tale of two grids -- Open Science Grid & TeraGrid*. Presentation. FLEET Working Group Meeting (Vienna, Austria, 20 July 2011). <http://hdl.handle.net/2022/13405>

Stewart, C.A. 2011. *XSEDE Campus Bridging*. Presentation. CASC (Coalition for Academic Scientific Computation) Meeting (Arlington, VA, 7 Sept 2011). <http://hdl.handle.net/2022/13608>

Knepper, R., C.A. Stewart and J.W. Ferguson. 2011. *XSEDE Campus Bridging Birds of a Feather*. Presentation. TeraGrid '11 (Salt Lake City, UT, 18-21 Jul). <http://hdl.handle.net/2022/13423>

Stewart, C.A. 2011. *XSEDE Campus Bridging*. Presentation. XSEDE Quarterly Meeting (Pittsburgh, PA, 31 Aug 2011). <http://hdl.handle.net/2022/13909>

Stewart, C.A., R. Henschel, W.K. Barnett and T. Doak. 2011. *Experiences with a large-memory HP cluster – performance on benchmarks and genome codes*. Presentation. HP-CAST 17 - HP Consortium for Advanced Scientific and Technical Computing World-Wide User Group Meeting (Seattle, WA, 12 Nov 2011). <http://hdl.handle.net/2022/13879>

Stewart, C.A., M.R. Link, G. Turner and W.K. Barnett. 2011. *Penguin Computing and Indiana University partner for "above campus" and campus bridging services to the community*. Presentation. IEEE/ACM SC11 Conference (Seattle, WA, 14-17 Nov 2011). <http://hdl.handle.net/2022/13880>

Stewart, C.A. and B.C. Wheeler. 2011. *Cyberinfrastructure Begins at Home*. Presentation. IBM Multi-customer Briefings, IEEE/ACM SC11 Conference (Seattle, WA, 15 Nov 2011). <http://hdl.handle.net/2022/13888>

2010

Stewart, C.A. *Big Data for Science. Big Data for Science Workshop*. Presentation. July 26-30, Bloomington, IN. <https://www.youtube.com/watch?v=UvIO7vXny3w>

Stewart, C.A. 2010. *Future of Supercomputer Centers: an evolutionary ecology view*. Presentation. "Future of Supercomputing Centers" Panel, IEEE/ACM SC10 Conference (New Orleans, LA, 19 Nov 2010). <http://hdl.handle.net/2022/9918> (Panel organizer: Thom Dunning, NCSA)

Stewart, C.A. 2010. *It's not a data deluge - it's worse than that*. Keynote Address. DIDC'10 (Chicago, IL, 22 Jun). <http://hdl.handle.net/2022/13195>

Stewart, C.A. 2010. *FutureGrid: an experimental, high-performance grid testbed*. Presentation. TeraGrid Quarterly Meeting (Tampa Bay, FL, 1-3 Mar 2010). <http://hdl.handle.net/2022/13911>

Stewart, C.A. 2010. *What is Cyberinfrastructure?* Presentation. ACM SIGUCCS 2010 Annual Meeting (Norfolk, VA, 24-27 Oct 2010). <http://hdl.handle.net/2022/13987>

Stewart, C.A. 2010. NSF ACCI (Advisory Committee for Cyberinfrastructure) *Taskforce Update*. Presentation. Presented at: CASC meeting (Arlington, VA, 22 March 2010). <http://hdl.handle.net/2022/14526>

Stewart, C.A. and S.C. Simms. 2010. *Indiana University's Lustre WAN: Empowering Production Workflows on the TeraGrid and beyond*. Presentation. TeraGrid Forum (Distributed virtual meeting, 20 May 2010). <http://hdl.handle.net/2022/13912>

2009

Stewart, C.A. 2009. *Campus Bridging Task Force*. Presentation. ACCI Task Force Birds of a Feather Session, ACM / IEEE SC09 Conference (Portland, OR, 14-20 Nov 2009). <http://hdl.handle.net/2022/13908>

Stewart, C.A. 2009. *Campus Bridging Task Force*. Presentation. NSF Advisory Committee for Cyberinfrastructure (Arlington, VA, 2-3 Dec 2009). <http://hdl.handle.net/2022/13908>

Stewart, C.A. 2009. *FutureGrid: an experimental, high-performance grid testbed*. Presentation. TeraGrid Science Advisory Board meeting, Quarterly Meeting (Arlington, VA, 10-11 Dec 2009). <http://hdl.handle.net/2022/13900>

Stewart, C.A. 2009. *The future is cloudy*. Presentation. Technische Universität Dresden (Dresden, Germany, 18 Jun 2009). <http://hdl.handle.net/2022/13913>

Stewart, C.A. 2009. *FutureGrid: an experimental, high-performance grid testbed*. Presentation. National Center for Supercomputer Applications (Champaign-Urbana, IL, 21 Oct 2009). <http://hdl.handle.net/2022/13899>

Stewart, C.A. 2009. *Big Red, the Data Capacitor, and the future (clouds)*. Presentation. University of Houston (Houston, TX, 2 Mar 2009). <http://hdl.handle.net/2022/13940>

Stewart, C.A. 2009. *Welcome to IU Purdue IBM Supercomputing Lunch*. Presentation. IUPUI (9 Feb 2009). <http://hdl.handle.net/2022/13941>

Stewart, C.A. 2009. *Everything happens somewhere*. Keynote Address. Indiana Geographic Information Council Annual Meeting (Bloomington, IN, 18 Feb 2009). <http://hdl.handle.net/2022/13942>

Stewart, C.A. 2009. *Where are we, and where ought we be going?* Presentation. UITS Brownbag Presentation Series (Bloomington, IN, 29 Apr 2009). <http://hdl.handle.net/2022/13943>

Stewart, C.A. 2009. *Pervasive Technology Institute overview*. Presentation. PTI RT All Hands Meeting (Bloomington, IN, 22 May 2009). <http://hdl.handle.net/2022/13967>

Stewart, C.A. 2009. *Cyberinfrastructure in research, education, and workforce development*. Presentation. Kentucky EPSCOR strategic planning meeting (Lexington, KY, 23 Jul 2009). <http://hdl.handle.net/2022/13968>

Stewart, C.A. 2009. *Where are we, and where ought we be going?* Presentation. University of Houston Department of Computer Science Distinguished Lecture Series (Houston, TX, 2 Mar 2009). <http://hdl.handle.net/2022/13988>

Stewart, C.A. 2009. *The year that was ... 2009 for PTI, RT, and our collaborators*. Presentation. Pervasive Technology Institute – Research Technologies all hands meeting (Bloomington, IN, 15 Dec 2009). <http://hdl.handle.net/2022/13989>

2008

Stewart, C.A. 2008. *The TeraGrid: An essential tool for 21st century science*. Presentation. Presented at: Annual Meeting of the American Association for Advancement of Science (Boston, MA, 17 February 2008). <http://hdl.handle.net/2022/14527>

Stewart, C.A., C. Jordan and S.C. Simms. 2008. *Data gateways for scientific communities -- Birds of a Feather Session*. Presentation. Presented at: TeraGrid '08 (Las Vegas, NV, 9-13 Jun 2008). <http://hdl.handle.net/2022/14528>

Almes, G.T., P. Dreher and C.A. Stewart. 2008. *Making campus cyberinfrastructure work for your campus*. Presentation. Presented at: EDUCAUSE 2008 (Orlando, FL, 28-31 Oct 2008). <http://hdl.handle.net/2022/14529>

Stewart, C.A. 2008. *IT/Library partnerships at IU: almost two decades (and counting)*. Presentation. Presented at: Brown University Library (Providence, RI, 21 Apr 2008). <http://hdl.handle.net/2022/14601>

Stewart, C.A. 2008. *Research Technologies at Indiana University Brown Bag Series*. Presentation. 2008. Presented at: Brown Bag Series Presentation (Indiana University, Bloomington, IN, 9 Oct 2008). <http://hdl.handle.net/2022/14602>

Stewart, C.A. 2008. *Research Technologies: what a long, strange trip it's been (and will continue to be)*. Presentation. BIO Brownbag Presentation Series (Indiana University, Bloomington, IN, 8 Apr 2008). <http://hdl.handle.net/2022/14603>

2007

Simms, S.C., M. Davy, B. Hammond, M.R. Link, C.A. Stewart, S. Teige, M.-H. Baik, Y. Mantri, R. Lord, D.F.R. McMullen, J.C. Huffman, K. Huffman, G. Juckeland, M. Kluge, R. Henschel, H. Brunst, A. Knuepfer, M. Mueller, P.R. Mukund, A. Elble, A. Pasupuleti, R. Bohn, S. Das, J. Stefano, G.G. Pike and D.A. Balog. 2007. *Using the Data Capacitor for Remote Data Collection, Analysis, and Visualization*. Presentation. IEEE/ACM 2007 Conference (Reno, NV, 13 Nov 2007). <http://hdl.handle.net/2022/13991>

Stewart, C.A. and R. Repasky. 2007. *High Performance Computing for University Medical Research: A Successful Implementation*. 2007. Presentation. Bio-IT World Conference & Expo (Boston, MA, 24-26 Apr 2007). <http://hdl.handle.net/2022/14600>

Stewart, C.A. *Research Computing - University Information Technology Services*. 2007. Presentation. IUPUI Faculty Council IT Conference (Indianapolis, IN, 27 Feb 2007). <http://hdl.handle.net/2022/14604>

Stewart, C.A. and M.R. Link. 2007. *Research Computing - University Information Technology Services*. Presentation. Ohio Supercomputer Center (Columbus, OH, 4 Apr 2007). <http://hdl.handle.net/2022/14605>

Stewart, C.A. 2007. *Indiana Economic Development 2007-2010 From Indiana Economic Development Corporation to Indiana and Purdue Universities*. Presentation. UITS Research Technologies Retreat (Bradford Woods, Martinsville, IN, 3 Feb 2007). <http://hdl.handle.net/2022/14606>

Stewart, C.A. 2007. *Implementation and experience with Big Red – a 20.4 TFLOPS IBM BladeCenter cluster*. Presentation. International Supercomputer Conference (Dresden, Germany, 26 Jun 2007). <http://hdl.handle.net/2022/14607>

Stewart, C.A. 2007. *Implementation and experience with Big Red (a 30.7 TFLOPS IBM BladeCenter cluster), the Data Capacitor, and HPSS*. Presentation. UITS Research Technologies Brownbag Lunch (Indianapolis and Bloomington, IN, 1 Nov 2007). <http://hdl.handle.net/2022/14608>

Stewart, C.A. 2007. *University role in preserving research data*. Presentation. NSF Crystallography Workshop (Bloomington, IN, 27 Feb 2007). <http://hdl.handle.net/2022/14609>

Stewart, C.A. 2007. *Implementation and experience with Big Red (a 30.7 TFLOPS IBM BladeCenter cluster), the Data Capacitor, and HPSS*. Presentation. IU Display, SC2007 Exhibit Hall (Reno, NV, 13 Nov 2007). <http://hdl.handle.net/2022/14610>

2006

Simms, S., M. Davy, B. Hammond, M. Link, C.A. Stewart, R. Bramley, B. Plale, D. Gannon, M.-H. Baik, S. Teige, J. Huffman, D. McMullen, D. Balog and G. Pike. 2006. *All in a Day's Work: Advancing Data-Intensive Research with the Data Capacitor*. Presentation. Bandwidth Challenge Competition, IEEE/ACM SC06 Conference (Tampa, FL, 14 and 15 Nov 2006).

Stewart, C.A. 2006. *Forschungsvorschlag: BLAST Leistungskennzeichnung, Leistungsanalyse, und Leistungsverbesserung (Research proposal: BLAST performance measurement, analysis, and improvement)*. Presentation. Technische Universität (Dresden, Germany, 11 Apr 2006). <http://hdl.handle.net/2022/14612>

Stewart, C.A. 2006. *Life Sciences and Cyberinfrastructure: a perspective from Indiana University*. Presentation. Colloquium at Technische Universität Dresden (Dresden, Germany, 18 Apr 2006). <http://hdl.handle.net/2022/14775>

Stewart, C.A. 2006. *Life Science Software and High Performance Computing: Seminar Series Part I*. Presentation. Technische Universität Dresden (Dresden, Germany, 13 Apr 2006). <http://hdl.handle.net/2022/14767>

Stewart, C.A. 2006. *Life Science Software and High Performance Computing: Seminar Series Part II*. Presentation. Technische Universität Dresden (Dresden, Germany, 20 Apr 2006). <http://hdl.handle.net/2022/14767>

Stewart, C.A. 2006. *Life Science Software and High Performance Computing: Seminar Series Part III*. Presentation. Technische Universität Dresden (Dresden, Germany, 25 Apr 2006). <http://hdl.handle.net/2022/14767>

Stewart, C.A. 2006. *Life Science Software and High Performance Computing: Seminar Series Part IV*. Presentation. Technische Universität Dresden (Dresden, Germany, 27 Apr 2006). <http://hdl.handle.net/2022/14767>

Stewart, C.A. 2006. *Introduction: IU, Information Technology, and Life Sciences*. Presentation. Technische Universität Dresden visit to IU (Indianapolis, IN, 12 Mar 2006). <http://hdl.handle.net/2022/14748>

Rodgers, G.P. and C.A. Stewart. 2006. *On the road to petascale processing with IU's Big Red Supercomputer and IBM BladeCenter H*. Presentation. SC|06 (Tampa, FL, 12 Nov 2006). <http://hdl.handle.net/2022/14749>

Stewart, C.A. 2006. *Development of an advanced cyberinfrastructure at Indiana University*. Presentation. IBM Watson Research Center (5 Jun 2006). <http://hdl.handle.net/2022/14768>

2005

Stewart, C.A. and G.R. Bertoline. 2005. *I-Light: A Network for Collaboration between Indiana University and Purdue University*. Presentation. I-Light Conference (Indianapolis, IN, 22 Sept 2005). <http://hdl.handle.net/2022/14772>

Stewart, C.A. 2005. *Information Technology as an enabler of Life Sciences Research*. Presentation. Statewide IT Conference (Indianapolis, IN, 24 Sept 2005). <http://hdl.handle.net/2022/14771>

Stewart, C.A. 2005. *Research and computing*. Presentation. Statewide IT Conference (Indianapolis, IN, 25 Sept 2005). <http://hdl.handle.net/2022/14776>

Stewart, C.A. and W. Stephan. 2005. *The Health & Life Sciences Economy of Indiana: Today and Tomorrow*. Presentation. TechPoint Tech Summit (Indianapolis, IN, 1 Nov 2005). <http://hdl.handle.net/2022/14777>

Stewart, C.A. 2005. *IBM – IU Recent Research Activities and Collaboration Opportunities*. Presentation. (Bloomington, IN, 18 May 2005). <http://hdl.handle.net/2022/14774>

Stewart, C.A. 2005. *Recent key achievements in research computing at IU*. Presentation. Presented at: IBM corporate visit (Bloomington, IN, Oct 2005). <http://hdl.handle.net/2022/14773>

2004

Stewart, C.A. 2004. *Bioinformatics: Have fun, change the world*. Presentation. Presented at: Marian College (Indianapolis, IN, 1 Dec 2004). <http://hdl.handle.net/2022/14778>

Stewart, C.A. 2004. *BioGrids in the US: Current status and future opportunities*. Presentation. Presented at: International School on Physics and Industry workshop on Particle Accelerators and Detectors: from Physics to Medicine (Ettore Majorana Foundation and Center for Scientific Culture, Erice, Italy, 15 Apr 2005). <http://hdl.handle.net/2022/14780>

Stewart, C.A. 2004. *Transforming life science research with advanced Information Technology at Indiana University*. Presentation. Presented at: IBM Life Sciences Symposium (Pallisades, NY, 31 May 2004). <http://hdl.handle.net/2022/14785>

Stewart, C.A. 2004. *Information Technology Leadership & Strategies in the Life Sciences*. Presentation. (Kelley School of Business, Bloomington, IN, 2 Dec 2004). <http://hdl.handle.net/2022/14781>

Stewart, C.A., A.D. Arenson and A. Shankar. 2004. *The centralized life science data service at Indiana University*. Presentation. Presented at: IBM Solutions Seminar (Bethesda, MD, 2 Mar 2004). <http://hdl.handle.net/2022/14779>

Stewart, C.A., R. Keller, R. Repasky, M. Hess, D. Hart, M. Müller, R. Sheppard, U. Wössner, M. Aumüller, H. Li, D.K. Berry and J. Colbourne. 2004. *A Global Grid for Analysis of Arthropod Evolution*. Presentation. Presented at: Grid2004 - 5th IEEE/ACM International Workshop on Grid Computing (Pittsburgh, PA, 8 Nov 2004). <http://hdl.handle.net/2022/14784>

Stewart, C.A., R. Keller, M. Hess, U. Wössner, M. Aumüller, M. Müller, R. Repasky, D. Hart, H. Li and D.K. Berry. 2004. *Global grid analysis of arthropod evolution – a successful grid project*. Presentation. Presented at: 7th HLRS Metacomputing and GRID Workshop (Stuttgart, Germany, 26 Apr 2004). <http://hdl.handle.net/2022/14782>

Stewart, C.A., R. Repasky, J. Colbourne, D. Hart, D.K. Berry, R. Sheppard, E. Wernert, M. Papakhian and J.N. Huffman. 2004. *Global Analysis of Arthropod Evolution*. Presentation. Presented at: I-Light Conference (Indianapolis, IN, 9 Mar 2004). <http://hdl.handle.net/2022/14783>

2003

Keller, R., M. Hess, R. Repasky, J. Colbourne, C.A. Stewart, D. Hart, J. Steinbachs, U. Wössner, D.K. Berry, M. Müller and H. Li. 2003. *Global Analysis of Arthropod Evolution*. Presentation. Presented at: HPC Challenge, SC03 (Phoenix, AZ, 19 Nov 2003). <http://hdl.handle.net/2022/14806>

Peebles, C.S., C.A. Stewart, B.D. Voss and S.B. Workman. 2003. *Measuring Quality, Cost, and Value of IT Services*. Presentation. Presented at: Meeting of Indianapolis ASQ Section 0903 (Indianapolis, IN, 14 Jan 2003). <http://hdl.handle.net/2022/15213>

Stewart, C.A. 2003. *Information technology, collaboration, and achieving IU's research goals*. Presentation. Presented at: Indiana University Research Symposium (Indiana University, Bloomington, IN, 13 Nov 2003). <http://hdl.handle.net/2022/14805>

Stewart, C.A. 2003. *Research & Academic Computing*. Presentation. Presented at: Indiana University Statewide IT Conference (Indianapolis, IN, 11 Sept 2003). <http://hdl.handle.net/2022/15215>

Stewart, C.A. 2003. *Computational Biology: Practical lessons and thoughts for the future*. Presentation. Presented at: Fakultät Informatik (Universität Stuttgart, Stuttgart, Germany, 25 Jun 2003). <http://hdl.handle.net/2022/15218>

Stewart, C.A. 2003. *Computational Biology: Practical lessons and thoughts for the future*. Presentation. Presented at: ZIH, Technische Universität Dresden (Dresden, Germany, 19 Jun 2003). <http://hdl.handle.net/2022/14802>

Stewart, C.A. 2003. *Computational Biology: Practical lessons and thoughts for the future*. Presentation. (Universität Stuttgart, Stuttgart, Germany, 17 Jun 2003). <http://hdl.handle.net/2022/14804>

Stewart, C.A. 2003. "1 TFLOPS achieved with a distributed Linux Cluster," Department of Computer Science Colloquium, University of Stuttgart, Germany, 28 May.

Stewart, C.A. 2003. *Current challenges and opportunities in Biogrids*. 2003. Presentation. Presented at: 6th Metacomputing Symposium (High Performance Computing Center, Universität Stuttgart, Stuttgart, Germany, 22 May 2003). <http://hdl.handle.net/2022/15217>

Stewart, C.A. 2003. *Overview of IU activities in supercomputing, grids, and computational biology*. Presentation. (Universität Stuttgart, Stuttgart, Germany, 14 May 2003). <http://hdl.handle.net/2022/14803>

Stewart, C.A. 2003. "INGEN's advanced IT facilities." Presentation. Dept. of Psychiatry, IU School of Medicine. (Indianapolis, IN, February, 2003). <http://hdl.handle.net/2022/15222>

Stewart, C.A. 2003. "INGEN's advanced IT facilities," Presented to Dept. of Physiology, IU School of Medicine. (Indianapolis, IN, February, 2003). <http://hdl.handle.net/2022/15222>

Stewart, C.A., A. Arenson and A. Shankar. 2003. *The Centralized Life Sciences Data Service at Indiana University*. Presentation. IBM/Lilly/IU Data Integration Conference (Indianapolis, IN, 17 Jan 2003). <http://hdl.handle.net/2022/15216>

Stewart, C.A., and R. Repasky. 2003. *High Performance Computing for University Medical Research: A Successful Implementation*. BioITWorld 2003 Conference (Cambridge Healthtech Institute, Boston, MA., 26 Mar 2003).

Stewart, C.A. and E. Wernert. 2003. *Computational Biology: Data, computation, and visualization*. Presentation. Visualization Workshop (Arctic Region Supercomputer Center, University of Alaska Fairbanks, 7 Aug 2003). <http://hdl.handle.net/2022/15219>

2002

Repasky, R., D. Hart, and C.A. Stewart. 2002. *The Indiana Genomics Information Technology Core*. INGEN Proteomics Symposium. (Indianapolis, IN, 15 November 2002).

Stewart, C.A. 2002. *INGEN's advanced IT facilities*. Presented to Division of Nephrology, IU School of Medicine. (Indianapolis, IN, November 2002). <http://hdl.handle.net/2022/15222>

Stewart, C.A. 2002. *INGEN's advanced IT facilities*. Presented to Indiana Health Industry Forum meeting. (October 2002). <http://hdl.handle.net/2022/15222>

Stewart, C.A. 2002. *INGEN's advanced IT facilities*. Presented to Wells Center, IU School of Medicine. (Indianapolis, IN, June 2002). <http://hdl.handle.net/2022/15222>

Stewart, C.A. 2002. *Indiana University facilities in support of Bioinformatics Research*. Presentation. School of Informatics. (Indianapolis, IN).

Stewart, C.A. 2002. *Opportunities in bioinformatics*. Presentation. Department of Biology, Wittenberg University. (Springfield, OH, April 28, 2002).

Stewart, C.A. 2002. *INGEN's advanced IT facilities*. Presentation. Department of Endocrinology, IU School of Medicine. (Indianapolis, IN, March 2002). <http://hdl.handle.net/2022/15222>

Stewart, C.A. *INGEN's advanced IT facilities*. 2002. Presentation. Department of Medical Genetics (IU School of Medicine, Indianapolis, IN, 8 Jan 2002). <http://hdl.handle.net/2022/15222>

Stewart, C.A. (convener). 2002. *Computational Biology*, Panel session at SC2002 conference. Baltimore, MD, November 2002). <http://www.sc-conference.org/sc2002/>

Stewart, C.A. 2002. *Implementing advanced IT facilities for the Indiana Genomics Initiative*. Presentation. HPC User Forum (Santa Fe, New Mexico, 23 Apr 2002). <http://hdl.handle.net/2022/15220>

2001

Peebles, C.S., C.A. Stewart, B.D. Voss and S.B. Workman. 2001. *Measuring Quality, Cost, and Value of IT Services*. Presentation. EDUCAUSE 2001 (Indianapolis, IN, 29 October 2001). <http://hdl.handle.net/2022/13896>

Peebles, C.S., C.A. Stewart, B.D. Voss and S.B. Workman. 2001. *Measuring Quality, Cost, and Value of IT Services*. Presentation. 55th Annual Quality Congress (Charlotte, NC, 8 May 2001). <http://hdl.handle.net/2022/13897>

Stewart, C.A., D. Hart, D.K. Berry, G.J. Olsen, E.A. Wernert and W. Fischer. 2001. *Parallel implementation and performance of fastDNAm1: a program for maximum likelihood phylogenetic inference*. Presentation. ACM/IEEE SC01 Conference (Denver, Colorado, 14 Nov 2001). <http://hdl.handle.net/2022/14004>

Stewart, C.A. 2001. *IT at IU*. Presentation. IBM T.J. Watson Research Center (Hawthorne, NY, 7 Feb 2001). <http://hdl.handle.net/2022/14005>

Stewart, C.A. 2001. *Services overview for School of Medicine and Indiana Genomics Initiative*. Presentation. IU School of Medicine (Indianapolis, IN, 28 Aug 2001). <http://hdl.handle.net/2022/14003>

2000

Stewart, C.A. 2000. *University Information Technology Services*. Presentation. Meeting of IUPUI Research Deans (Indianapolis, IN, March 2000). <http://hdl.handle.net/2022/14006>

Stewart, C.A. 2000. *Status of IU's E10000 and recent activities with Sun*. Presentation. Indiana University Wrubel Computing Center (Bloomington, IN, 14 Jun 2000). <http://hdl.handle.net/2022/14009>

Stewart, C.A. and Z. Meglicki. 2000. *High Performance Storage System at Indiana University*. Presentation. High Performance Computing Center, University of Stuttgart symposium on massive storage systems. Jan 18, 2000.

Hart, D., Lauer, D.A., J.W. Naab, C.A. Stewart, and D.F. McMullen. 2000. *Performance of parallel programs on PC clusters: NT vs. Linux*. Presented at 2000 SIAM conference on Computational Science and Engineering, 21-24 September, Washington, D.C. www.siam.org/meetings/cse00/

1990s

Stewart, C.A. 1999. *IU's Compaq Parallel PC Cluster*. Presentation. Compaq - Indiana University Visit (Bloomington, IN, 17 Mar 1999). <http://hdl.handle.net/2022/13898>

Stewart, C.A. 1999. *Evolutionary Biology and Computational Grids*. Presentation. CASCON Workshop on Computational Biology (Mississauga, Ontario, Canada, 10 Nov 1999). <http://hdl.handle.net/2022/14010>

Hart, D., J. Palmer, W. Fischer, S. Turner, D.K. Berry, E. Wernert, C.A. Stewart, T.W. Tan, M. Sakharkar, L.X. Zhang, M. Buchhorn and T. Potter. *Maximum Likelihood Analysis of Phylogenetic Data*. 1998. Presentation. IEEE/ACM SC98 Conference (Orlando, FL, Nov 1998). <http://hdl.handle.net/2022/13893>

Voss, B.D., D. Jung-Gribble and C.A. Stewart. 1996. *The Leveraged Support Model*. Presentation. CUMREC '96 (Nashville, TN, May 1996). <http://hdl.handle.net/2022/14011>

1980s

Stewart, C.A. 1986. Diurnal variation in metabolic parameters of white-footed mice (*Peromyscus leucopus*). Presentation. Annual meeting, American Society of Mammalogists. (May 1986).

Stewart, C.A. 1982. The effects of the water soluble fraction of fuel oil on the development of the brine shrimp (*Artemia salina* Leach). Ohio Ecology Student Symposium. (Miami University, Miami, OH).

Stewart, C.A. 1982. Age-specific changes in diet and Cesium-127 whole body concentration in turtles (*Pseudemys scripta*) inhabiting a contaminated swamp. Midwest Ecology Symposium, Michigan State University. (East Lansing, MI).

Stewart, C.A. 1981. A preliminary analysis of diet and resource partitioning in *Etheostoma caeruleum* Storer and *Etheostoma flabellare* Rafinesque in Rock Run, Clark County, OH. Presentation. Ohio Academy of Science, Wooster, OH. Ohio J. Science 81 (April Program Abstracts): 17. <http://hdl.handle.net/2022/15227>

Reash, R., and C.A. Stewart. 1981. Preliminary investigations of longitudinal distribution and fish species diversity in Rock Run, Clark County, Ohio. Beta Beta Beta Annual Meeting, Bios 52: 178 (abstract). <http://hdl.handle.net/2022/15228>

Awards

2018	Finalist, Best Paper, IEEE/ACM Utility and Cloud Computing Conference
2016	Phil Andrews Memorial Best Technical Paper Award, XSEDE16
2015	Phil Andrews Memorial Best Technical Paper Award, XSEDE15
2007	Bandwidth Challenge Award at Supercomputing 2007 conference (http://sc07.supercomputing.org/) for a project using a wide area file system to support several data-intensive research projects, including analysis of amyloid proteins implicated in Alzheimer's disease.
2007	IEEE Bioinformatics and Bioengineering Excellence in Service Award

- 2006 Bandwidth Challenge honorable mention at Supercomputing 2006 conference (<http://sc06.supercomputing.org/>).
- 2003 High Performance Computing Challenge Award, at Supercomputing 2003 conference (<http://www.sc-conference.org/sc2003/>) Stewart led an international team that created a global grid of supercomputers spanning every continent except Antarctica to perform maximum likelihood analysis of DNA data to analyze the phylogenetic relationships of arthropods.
- 1981 Wittenberg University: Biology major of the year, Mathematics major final exam passed with distinction.

Technical Skills

- High-performance computing and storage architectures, online help systems, statistical and mathematical software, and Unix system administration
- Expertise in bioinformatics, especially computational phylogenetics and bioinformatics applications of high-performance computers
- Broad experience in information technology, including hands-on responsibility for support, systems administration, administrative applications, and networking
- Quality assessment, business process improvement, delivery of online information, and customer service

Language Skills

German. Goethe Institut B2 Zertifikat in Deutsch.

Professional Association Memberships & Activities

- Current member of:
 - Association for Computing Machinery (ACM)
 - Society for Philosophy and Technology
- Formerly member of:
 - American Association for the Advancement of Science (AAAS)
 - American Society of Mammalogists
 - Coalition for Academic Scientific Computing (CASC)
 - 2018-2020 Secretary
 - 2009-2010 Past Chair (executive committee member)
 - 2007-2008 Chair
 - 2005-2006 Vice Chair
 - Indiana Academy of Science
 - Institute of Electrical and Electronics Engineers (IEEE)

Professional Service

STEERING, ADVISORY, & PROGRAM COMMITTEES

- 2021- Proceedings chair, PEARC 22 Conference
- 2019-present Steering Committee, Center for Advanced Systems Understanding (CASUS), a joint Polish-German institute in, Görlitz Germany. CASUS' founding partners are Technische Universität Dresden (TUD) and the University of Wrocław.

2019-2020	Technical Program Chair, PEARC 2020 Conference
2018-present	Scientific Advisory Board, JARA (Jülich Aachen Research Alliance) Center for Simulation and Data Science
2019-2020	Technical Program Chair, PEARC20 (Practical Experiences in Advanced Research Computing)
2018-2020	Secretary, Coalition for Academic Scientific Computation (www.casc.org)
2010-2012	Chair, CASC
2008-2010	Vice Chair, CASC
2013-2020	Program Committee of CSEDU 2014 (http://www.csedu.org/)
2017-2020	Volunteer reviewer, Internet2 ECAS (Exploring Clouds for Acceleration of Science)
2017	Program committee member, VHPC'17 (12th Workshop on Virtualization in High-Performance Cloud Computing)
2016-2020	Volunteer reviewer, Global Innovation through Science and Technology, Technology Idea (GIST Tech-I) Competition
2015-2020	Science Advisory Board, SPPEXA (German Priority Programme 1648 Software for Exascale Computing)
2015-2018	Hathi Trust Research Center Science Advisory Board
2013	General Chair, IEEE Cluster 13 Conference (https://pti.iu.edu/ieecluster-2013/index.php)
2012	General Chair, XSEDE 12 Conference
2010-2013	NEESit Advisory Committee (http://nees.org/about/neescomm/cyberinfrastructure)
2010-2013	University of Buffalo TeraGrid XD Technology Analysis Science Advisory Committee
2009-2011	Member, NSF Advisory Committee for Cyberinfrastructure
2009-2011	Chair, NSF Advisory Committee for Cyberinfrastructure Task Force on Campus Bridging
2009	Member, Kentucky Cyberinfrastructure Steering Committee, 2009
2008	Reviewer, Aspirations in Computing Award, National Center for Women & IT (NCWIT), 2008

Community Service

Stewart was the founding treasurer and board member of the Funeral Consumer's Alliance chapter of Bloomington, IN. FCA provides public education and referral to resources regarding end-of-life and after-death care, including information about local options and regulations, and communication with family and service providers.

Stewart has provided volunteer IT assistance at Middle Way House of Monroe County, an organization that serves and houses battered women and their children.

Stewart is a Certified Lay Speaker in the United Methodist Church and is active in service work through that church.

Other Information

USA Track & Field Member Number 1405795723

American Trail Runner's Association Member Number U2017-00021

United States Snowshoe Association Member

Stewart's application to become an honorary carbon-based adjunct member of the Order of the Binary Singularity remains under consideration. (*The Order of the Binary Singularity is a monotheistic robot religion on Chapek 9 that teaches binary unity and to embrace one's pre-programmed nature and to not be discouraged by it as it represents robot magnificence. This order is a running joke in the animated series Futurama. See https://theinfosphere.org/Order_of_the_Binary_Singularity for more information*)