
Executive Director Pervasive Technology Institute
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Indiana University
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Career Objective

My career objective is to enable the Indiana University Pervasive Technology Institute and University Information Technology Services generally to deliver useful and innovative services - in support of scientific, scholarly, and artistic accomplishment; education; and economic development - to Indiana University, the State of Indiana, the nation in ways that benefit all of those constituencies and the world as a whole.

Citizenship

US

Education

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

Current Appointments

2008-	Executive Director, Pervasive Technology Institute, Indiana University
2008-	Adjunct Professor, School of Informatics, Indiana University
2003-	Adjunct Associate Professor, Department of Medical and Molecular Genetics, Indiana University School of Medicine
2003-	Adjunct Associate Professor, Department of Biology, Indiana University

Previous Appointments

2005-2017	Associate Dean for Research Technologies, Office of the CIO and Vice President for Information Technology, Indiana University
2012-2013	Expert (EE-401, part time), National Science Foundation, Division of Biological Infrastructure.
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

- 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 to 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
- 1999-2005 Director, Indiana Genomics Initiative Information Technology Core, Indiana University
- 1997-2005 Director for Research and Academic Computing (Computation), Indiana University. Responsible for major new grant-funded initiatives in high performance computing, computational biology, and bioinformatics.
- 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. Moved online help system (<http://kb.iu.edu/>) into . 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 (4th 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.

Publications

PEER REVIEWED

2017

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. 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

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

Stewart, C.A., R.D. Knepper, M.R. Link, M. Pierce, E.A. Wernert, N. Wilkins-Diehr. 2017. 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 from: <http://hdl.handle.net/2022/18608>

C.A. Stewart, R. Knepper, M.R. Link, M. Pierce, E.A. Wernert, N. Wilkins-Diehr. 2017. 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>

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=<http://dx.doi.org/10.1145/2974927.2974962>

Grimshaw, A., M.A. Proadhan, C.A. Stewart, R. Knepper. (2016). Campus Compute Co-operative (CCC): A Service Oriented Cloud Federation. In the 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., Stanzone, D.C., Taylor, J., Skidmore, E. (2016). Jetstream – performance, early experiences, and early results. Proceedings of the 2016 XSEDE Conference: Diversity, Big Data & Science at Scale, doi: [10.1145/2949550.2949639](https://doi.org/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. Proceedings of SIGUCCS '16. November 06-09, 2016, Denver, CO, USA. DOI: <http://dx.doi.org/10.1145/2974927.2974956>

2015

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. 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. Proceedings of the 2015 XSEDE Conference: Scientific Advancements Enabled by Enhanced Cyberinfrastructure, doi: <http://dx.doi.org/10.1145.2792745.2792768>.

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

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." 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. 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 Proceedings of the 42nd annual ACM SIGUCCS conference on User services. Pages 107-110

2013

Kluge, M., S. Simms, T. William, R. Henschel, A. Georgi, C. Meyer, M.S. Mueller, C.A. Stewart, W. Wunsch and 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>

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. GBertoline, 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, M. BGrobe, 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. MNavarro, J. Nichols, M.e. Papka, R. Pennington, G. Pike, J. Pool, R. Reddy, D. Reed, T. TRimovsky, 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. Moskvin, 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>

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<http://portal.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>

WORKSHOP AND TECHNICAL REPORTS (NOT PEER REVIEWED)

2017

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. Retrieved from <http://hdl.handle.net/2022/21247>

2016

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., Mikski, 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-TR16-007). Retrieved from <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. Lorna. 2014. XSEDE 12 Conference Final Report <http://hdl.handle.net/2022/18493>

2014

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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>

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Awards

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|------|---|
| 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. |

Presentations

2017

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

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Stewart, C.A., D.Y. Hancock, J. Laherty. 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. Retrieved from <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. Retrieved from <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. Retrieved from <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. Retrieved from <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. Retrieved from <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. 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, Craig 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, Craig 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>

September 30 2015. Presented at University of Michigan, Ann Arbor, MI 21 October 2015.
<http://hdl.handle.net/2022/20444>

Stewart, Craig A. Cyberinfrastructure for Research: New Trends and Tools (Part II of II).
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>

C.A. 2015. Cyberinfrastructure for Research: New Trends and Tools (Part 2 of 2). Presentation.
University of Vermont, Burlington, VT. 30 September 2015.
<https://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. 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. Presented at Zentren fuer Kommunikation und Informationzverarbeitung 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 Universitaet 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. 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 Universitaet 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. Presentation. Presented at Technische Universitaet 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.

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, Aachen, Germany, 23 August 2013. <http://hdl.handle.net/2022/16743>

2012

Stewart, C.A., M. Jacobs, B. Hallock, R. Knepper and W.K. Barnett. *Get the convenience of cloud while keeping your rights – through the IU / Penguin Computing partnership.* 2012. Presentation. (2012). <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.* (Presentation) Coalition for Academic Scientific Computation (Arlington, VA, 29 Feb). <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. Presented to XSEDE Campus Champions 8 June 2012. Presented to campus champions virtual meeting from Michigan City, IN. <http://hdl.handle.net/2022/14709>

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

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

Stewart, C.A. 2012. XSEDE12 opening remarks. Presentation. Presented at 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. What is campus bridging and what is XSEDE doing about it? 2012. Presentation. Presented at: XSEDE12 (Chicago, IL, 16-20 Jul 2012). <http://hdl.handle.net/2022/14599>

Stewart, C.A. 2012. Campus Bridging Security Challenge. From “Panel: Security for Science Gateways and Campus Bridging”. Jim Basney, Randy Butler, Dan Fraser, Suresh Marru, Craig A. Stewart. Presented at 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. 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)*. (Presentation) 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. NSF ACCI (Advisory Committee for Cyberinfrastructure) *Taskforce Update*. 2010. 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 Universitaet 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)*. (Presentation) 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. *The TeraGrid: An essential tool for 21st century science*. 2008. 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. *Data gateways for scientific communities -- Birds of a Feather Session*. 2008. 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. *Making campus cyberinfrastructure work for your campus*. 2008. Presentation. Presented at: EDUCAUSE 2008 (Orlando, FL, 28-31 Oct 2008). <http://hdl.handle.net/2022/14529>

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

Stewart, C.A. 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. Research Technologies: what a long, strange trip it's been (and will continue to be). 2008. Presentation. Presented at: 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. *High Performance Computing for University Medical Research: A Successful Implementation*. 2007. Presentation. Presented at: 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. Presented at: IUPUI Faculty Council IT Conference (Indianapolis, IN, 27 Feb 2007). <http://hdl.handle.net/2022/14604>

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

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

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

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

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

Stewart, C.A. *Implementation and experience with Big Red (a 30.7 TFLOPS IBM BladeCenter cluster), the Data Capacitor, and HPSS*. 2007. Presentation. Presented at: 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. *Forschungsvorschlag: BLAST Leistungskennzeichnung, Leistungsanalyse, und Leistungsverbesserung (Research proposal: BLAST performance measurement, analysis, and improvement)*. 2006. Presentation. Presented at: Technische Universität (Dresden, Germany, 11 Apr 2006). <http://hdl.handle.net/2022/14612>

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

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

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

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

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

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

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

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

2005

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

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

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

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

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

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

2004

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

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

Stewart, C.A. *Information Technology Leadership & Strategies in the Life Sciences*. 2004. 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. *The centralized life science data service at Indiana University*. 2004. 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. *A Global Grid for Analysis of Arthropod Evolution*. 2004. 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. *Global grid analysis of arthropod evolution – a successful grid project*. 2004. Presentation. Presented at: 7th HLRS Metacomputing and GRID Workshop (Stuttgart, Germany, 26 Apr 2004). <http://hdl.handle.net/2022/14782>

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2003

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1990's

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Technical Skills

I have particular expertise in bioinformatics, especially computational phylogenetics and bioinformatics applications of high performance computers. I have 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 are also areas of expertise. Other technical skill areas include high performance computing architectures, online help systems, statistical and mathematical software, and Unix system administration.

Language Skills

German. Goethe Institut B1 Zertifikat in Deutsch

Professional Association Memberships & Activities

Institute of Electrical and Electronics Engineers

Association for Computing Machinery

Union of Concerned Scientists

Coalition for Academic Scientific Computing	Chair	2007-2008
	Executive Committee	2009-2010

Steering & Program Committees

STEERING, ADVISORY, & PROGRAM COMMITTEES

- 2016 Program committee member, VHPC'17 (12th Workshop on Virtualization in High-Performance Cloud Computing).
Program Committee of CSEDU 2016 (<http://www.csedu.org/>)
Hathi Trust Research Center Science Advisory Board
- 2015 Program Committee of CSEDU 2015 (<http://www.csedu.org/>)
Hathi Trust Research Center Science Advisory Board
- 2014 Program Committee of CSEDU 2014 (<http://www.csedu.org/>)
- 2013 General Chair, IEEE Cluster 13 Conference (<https://pti.iu.edu/ieecluster-2013/index.php>)
Program Committee of CSEDU 2016 (<http://www.csedu.org/>)
- 2012 General Chair, XSEDE 12 Conference
- 2010-2013 NEESit Advisory Committee (<http://nees.org/about/neescomm/cyberinfrastructure>)
University of Buffalo TeraGrid XD Technology Analysis Science Advisory Committee
- 2009-2011 Member, NSF Advisory Committee for Cyberinfrastructure
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

Other Information

Member, Union of Concerned Scientists

USA Track & Field Member Number 1405795723

American Trail Runner's Association Member Number U2017-00021