

David L. Hart

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a. Professional Preparation

Georgia Institute of Technology	Atlanta, GA	Computer Science	B.Sc., 1989
Carnegie Mellon University	Pittsburgh, PA	Computer Science	M.Sc., 1991
University of Georgia	Athens, GA	Mass Communication	M.M.C., 1993

b. Appointments

2016-present	Director, XSEDE Resource Allocations Service
2010-present	User Services Section Manager, CISL, NCAR
2007-2010	Assistant Director, National Systems Division, SDSC
2004-2007	Assistant Director, Resource Allocations, SDSC
2002-2004	Public Information Officer, National Science Foundation OLPA
1999-2002	Assistant Director, External Relations, SDSC

c. Products

(i) Most Closely Related

- Mayernik, M., D. L. Hart, K. Maull, and N. M. Weber, “Assessing and tracing the outcomes and impact of research infrastructures,” *Journal of the Association for Information Science and Technology*, 68(6):1341–1359, June 2017, doi:10.1002/asi.23721.
- Hart, D., M. Rishel, and D. Nychka, “Estimating the accuracy of user surveys for assessing the impact of HPC systems,” In *Proceedings of the XSEDE16 Conference on Diversity, Big Data, and Science at Scale*, Miami (Fla.) USA, July 17–21, 2016, doi:10.1145/2949550.2949640.
- Hart, D.L., A. Schuele, E. Soriano, M. Dahan, and M. Hanlon, “XRAS: Allocations software as a service in XSEDE,” In *Proceedings of the 2014 Annual Conference on Extreme Science and Engineering Discovery Environment (XSEDE '14)*, Atlanta (Ga.) USA, July 13–18, 2014, doi:10.1145/2616498.2616562
- Furlani, T.R., B.L. Schneider, M.D. Jones, J. Towns, D.L. Hart, et al., “Using XDMoD to facilitate XSEDE operations, planning and analysis,” *XSEDE13*, San Diego, CA, USA, July 22–25, 2013, doi:10.1145/2484762.2484763
- Hart, DL, “Deep and Wide Metrics for HPC Resource Capability and Project Usage,” SC’11 State of the Practice Reports (Seattle, WA), 2011, doi:10.1145/2063348.2063350

(ii) Other Significant Products

- Hart, D.L., P. Gillman, and E.J. Thanhardt, “National Center for Atmospheric Research storage accounting and analysis possibilities,” *Concurrency and Computation: Practice and Experience*, 2014. doi:10.1002/cpe.3228
- Hart, D.L., “Longitudinal User and Usage Patterns in the XSEDE User Community,” *XSEDE12*, Chicago (Ill.), USA, July 16-20, 2012, doi:10.1145/2335755.2335851

- HPCWorld Consortium. *Handbook of HPC e-Science Infrastructure Allocation Reviewing, Selection and Management*. 2011. <http://www.hpcworld.eu/files/intranet/handbook.pdf>
- Hart, D.L. (2011) “Measuring TeraGrid: Workload Characterization for an HPC Federation.” *IJHPCA*, 25(4): 451–465, November 2011, doi: 10.1177/1094342010394382.
- Katz, D., D. Hart, C. Jordan, A. Majumdar, J.P. Navarro, W. Smith, J. Towns, V. Welch, N. Wilkins-Diehr. “Cyberinfrastructure Usage Modalities on the TeraGrid.” 2011 High-Performance Grid and Cloud Computing Workshop, *Proceedings of 2011 IPDPS Workshops*, pp. 927-934, 2011, doi:10.1109/IPDPS.2011.239

e. Synergistic Activities

- I oversee NCAR’s user support activities such as help desk, allocations, accounting, HPC consulting, and user training, with significant personal responsibility for allocations process management.
- I am the director of XSEDE’s Resource Allocations Service, which includes teams that develop and operate the XRAS software-as-a-service and that manage the submission, review, and processing of allocations requests and awards.
- My individual XSEDE contributions encompass ongoing efforts on reporting, metrics, and allocations, and I have collaborated with the NCAR Library on efforts to assess and trace the outcomes and impact of research infrastructures.
- I represented NCAR and TeraGrid in an effort to document best practices for cyberinfrastructure allocations; initiated in November 2009, this 18-month effort was led by the HPCWorld consortium with funding from the European Union.

e. Collaborators and Other Affiliations

a. Collaborators and Co-Editors

Cash, Benjamin (George Mason U); Chen, Po (U Wyoming); Dahan, Maytal (TACC); DeLeon, Robert L. (U Buffalo); Fox, Geoffrey C. (Indiana U); Furlani, Tom (U Buffalo); Gaither, Kelly (TACC); Gallo, Steven (U Buffalo); Hanlon, Matthew (TACC); Jones, Matthew D. (U Buffalo); Lifka, David (Cornell U); Liu, Si (TACC); Navarro, J-P (ANL); Navratil, Paul (TACC); Patra, Abani (U Buffalo); Peterson, Gregory (U Tennessee); Roskies, Ralph (U Pittsburgh); Schuele, Amy (UIUC/NCSA); Soriano, Ester (UIUC/NCSA); Shader, Bryan (U Wyoming); Towns, John (UIUC/NCSA); von Laszewski, Gregor (Indiana U); Wang, Fugang (Indiana U); Weber, Nicholas M. (U Washington); Wilkins-Diehr, Nancy (UCSD/SDSC)

Total Collaborators and Co-Editors: 36

b. Graduate Advisors and Postdoctoral Sponsors

Tomita, Masaru (CMU graduate advisor) Keio University, Japan

Total Graduate Advisors and Postdoctoral Sponsors: 1

c. Thesis Advisor and Postgraduate-Scholar Sponsor

n/a

Total Advisor and Postgraduate-Scholar Sponsored: 0