

**CURRICULUM VITAE**  
**LEW EDWARD LEFTON**

Associate Vice President for Research Computing Emeritus  
Assistant Dean of Information Technology Emeritus, College of Sciences  
Principal Academic Professional Emeritus, School of Mathematics

School of Mathematics and College of Sciences  
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**I. Earned Degrees**

- 1987 Ph.D., Mathematics, University of Illinois, Urbana-Champaign, Illinois  
Thesis Topic: Degree Theory and Nonlinear Boundary Value Problems at Resonance  
Thesis Advisor: Robert Kaufman
- 1986 M.S., Mathematics, University of Illinois, Urbana-Champaign, Illinois
- 1982 B.S., Mathematics and Computer Science, New Mexico Institute of Mining and  
Technology, Socorro, New Mexico

**II. Employment History**

- 2023 – present Principal Academic Professional Emeritus, Georgia Institute of Technology
- 2019 – 2023 Associate Vice President for Research Computing, Office of the Executive Vice  
President for Research, Georgia Institute of Technology
- 2017 – 2019 Assistant Vice President for Research Cyberinfrastructure, Office of the  
Executive Vice President for Research, Georgia Institute of Technology
- 2015 – present Assistant Dean of Information Technology, College of Sciences, Georgia  
Institute of Technology
- 2019 – present Principal Academic Professional, School of Mathematics, Georgia Institute  
of Technology
- 2012 – 2019 Senior Academic Professional, School of Mathematics, Georgia Institute of  
Technology
- 2006 – 2015 Director of Information Technology Services, College of Sciences, Georgia  
Institute of Technology
- 1999 – 2015 Director of Information Technology, School of Mathematics, Georgia  
Institute of Technology
- 1999 – 2012 Academic Professional, School of Mathematics, Georgia Institute of  
Technology
- 1995 – 2001 Associate Professor, Department of Mathematics, University of New Orleans
- 1989 – 1995 Assistant Professor, Department of Mathematics, University of New Orleans

1987 – 1989 Visiting Assistant Professor, Department of Mathematics, University of California – Riverside

### III. Honors and Awards

- 2018 Inaugural Fellow of the Center for Deliberate Innovation at Georgia Tech
- 2008 Institute Administrative Service Award, \$2500. “In recognition of conscientious professional service to and dedicated support of Georgia Tech”
- 2006 Georgia Tech Best Practices in Information Technology, Runner Up Award, for “Simple tools for secure remote host monitoring, maintenance, and integrity.”
- 2005 Georgia Tech Best Practices in Information Technology, First Place Award, for “Unattended and Automated Installation of Computers.”

### IV. Summary of Higher Education Administrative and Leadership Experience

- Associate Vice President for Research Computing, Office of the Executive Vice President for Research, Georgia Institute of Technology
- Assistant Vice President for Research Cyberinfrastructure, Office of the Executive Vice President for Research, Georgia Institute of Technology
- Assistant Dean of Information Technology, College of Sciences, Georgia Institute of Technology
- Director of Information Technology Services, College of Sciences, Georgia Institute of Technology
- Director of Information Technology, School of Mathematics, Georgia Institute of Technology
- Graduate Coordinator, Department of Mathematics, University of New Orleans

### V. Education and Mentorship

#### A. Courses Taught

<u>Semester, Year</u>	<u>Course Number</u>	<u>Course Title</u>	<u>Number of Students</u>
Fall 2022	ECE VPK	VIP – Getting to Know U.**	28 students
Spring 2022	ECE VXG	VIP – Getting to Know U.**	13 students
Spring 2022	ECE VPK	VIP – Humor Genome Project*	6 students
Fall 2021	ECE VXG	VIP – Getting to Know U.**	11 students
Fall 2021	ECE VPK	VIP – Humor Genome Project*	18 students
Spring 2021	ECE VPK	VIP – Humor Genome Project*	15 students
Fall 2020	ECE VPK	VIP – Humor Genome Project*	17 students
Spring 2020	ECE VPK	VIP – Humor Genome Project*	15 students
Fall 2019	ECE VPK	VIP – Humor Genome Project*	24 students
Spring 2019	ECE VPK	VIP – Humor Genome Project*	20 students
Fall 2018	ECE VPK	VIP – Humor Genome Project*	18 students

	Spring 2018	ECE VPK	VIP – Humor Genome Project*	19 students
	Fall 2017	ECE VPK	VIP – Humor Genome Project*	21 students
	Fall 2017	Math 4090	Senior Project	1 student
	Spring 2017	ECE VPK	VIP – Humor Genome Project*	20 students
	Spring 2017	Math 4080	Senior Project	1 student
	Fall 2016	ECE VPK	VIP – Humor Genome Project*	13 students
	Fall 2016	Math 4777	Introduction to parallel and vector scientific computing	18 students
	Spring 2016	ECE VPK	VIP – Humor Genome Project*	14 students
	Fall 2015	ECE VPK	VIP – Humor Genome Project*	11 students
	Spring 2015	ECE VPK	VIP – Humor Genome Project*	17 students
	Fall 2014	ECE VPK	VIP – Humor Genome Project*	16 students
	Fall 2014	Math 4777	Introduction to parallel and vector scientific computing	27 students
	Spring 2014	ECE VPK	VIP – Humor Genome Project*	10 students
	Fall 2013	ECE VPK	VIP – Humor Genome Project*	9 students
	Fall 2012	Math/CS 4777	Introduction to parallel and vector scientific computing	16 students
	Fall 2010	Math/CS 4777	Introduction to parallel and vector scientific computing	20 students
	Summer 2009	Math 4803	Undergraduate Reading Course	1 student
inter	Fall 2008	Math/CS 4777	Introduction to parallel and vector scientific computing	24 students
	Fall 2007	Math 4090	Senior Project	1 student
	Fall 2006	Math/CS 4777	Introduction to parallel and vector scientific computing	10 students
	Fall 2005	Math/CS 4777	Introduction to parallel and vector scientific computing	24 students
	Fall 2002	Math/CS 4777	Introduction to parallel and vector scientific computing	28 students

\* VIP – Humor Genome Project courses all co-taught with Dr. Pete Ludovice, School of Chemical and Biomolecular Engineering, Georgia Tech

\*\* VIP – Getting to Know U. courses co-taught with Dr. Chaouki Abdallah, School of Electrical and Computer Engineering, Georgia Tech, Didier Contis, College of Engineering, Georgia Tech

## B. Academic and Career Advising and Guidance Responsibilities

2003 – 2012 Faculty Advisor for the Georgia Tech Linux Users Group

### C. Research Advising and Guidance

2017	Tim Flaspoebler Title:	PhD proposal committee, Nuclear Engineering <i>Contribution-Based Mesh-Reduction Methodology in Hybrid Particle Transport</i>
2017	Iban Ariza Topic:	Math 4080, Math 4090, Undergraduate Sr. Project, Mathematics <i>Prediction of the Success of a Reddit Submission Using Deep Learning Models</i>
01/2012 - 05/2012	Wayne Lu Topic:	Internship Study, Wheeler High School student <i>Knot Invariant Database project</i> co-advisor Stavros Garoufalides
2009	Samantha Bueno Topic:	Math 4803 Undergraduate Reading Course, Mathematics <i>Implementation and Benchmarking of HPC clusters</i>
2007	Erich Brownlow Topic:	Math 4090 Undergraduate Sr. Project, Mathematics <i>Calibration of RAQAST smog model</i> co-advisor Serge Guillas
05/2006 inter- 08/2006	Darshan Bryner Topic:	REU program, Mathematics <i>The Homology of 17-Crossing Knots: A Computational Approach to Knot Theory</i> co-advisor Stavros Garoufalides
05/2006 - 08/2006	Darshan Bryner Topic:	REU program, Mathematics <i>Numerical Methods and Parallel Computing</i>
2000	Michael Jiang	PhD oral exam, Mathematics, Numerical Methods and PDE
2013-2018	Various Undergraduates	VIP Course – Humor Genome Project

### D. Educational Innovations and Other Contributions

1. Project-based learning methods and interdisciplinary teaching activities
  - a) 2021 – 2022, VIP Course – Getting to Know U.
  - b) 2013-2018 VIP Course – Humor Genome Project
  - c) 2002-2016 Math 4777 – Introduction to Parallel and Vector Scientific Computing

## VI. Research, Scholarship, and Creative Activities

### A. Publications

(\*) indicates work done at Georgia Tech

1. (\*) Into the Makerverse: Communal Tangible Making and Place-Based Futuring with AI, co-authors Supratim Pait, Michael Nitsche, Noura Howell, Jeremiah Long, Lorraine Kowalski, Crystal Byrd, Lew Lefton, Sylvia Janicki, Yuhan Hou, Thais

- Alvarenga, Xingyu Li, and Vyshnavi Namani, *Proceedings of the 20th International Conference on Tangible, Embedded, and Embodied Interaction (TEI '26)*. Association for Computing Machinery, New York, NY, USA (2026)
2. (\*) A Socratic RAG Approach to Connect Natural Language Queries on Research Topics with Knowledge Organization Systems, co-authors K. Rong, C. Dankhara, F. Kausar, A. H. Hamdallahi<sup>3</sup>, Assoc. for Advancement of AI conference workshop: TIKa-2025, <https://arxiv.org/abs/2502.15005>, (2025)
  3. (\*) “Phoenix: The Revival of Research Computing and the Launch of the New Cost Model at Georgia Tech,” with Jezghan, A., Sarajlic, S., Brandon, M., Bright, N., Belgin, M., et. al., *Proceedings of PEARC 2022, Practice and Experience in Advanced Research Computing*, ACM (2022), <https://dl.acm.org/doi/10.1145/3491418.3530767>
  4. (\*) “Humor Applied to STEM Education,” with Ludovice, P. and Hu, D, *Systems Research and Behavioral Science*, 34 (2017), 216—226.
  5. (\*) “Optimal Numerical Flux of Power Law Fluids in Some Partially Full Pipes,” co-author D. Wei, Y. Liu, *International Journal of Computational Fluid Dynamics*, (2014) 1-12.
  6. (\*) “Humorous Improvisation Tailored for Technical Innovation,” with Ludovice, P., Catrambone, R., *Conference Proceedings of the ASEE Southeast Section* (2013).
  7. (\*) “Improvisation methods to catalyze engineering creativity,” with Ludovice, P., Catrambone, R. in *Frontiers in Education Conference (FIE)*, 2010 IEEE, pp. F1A-1. IEEE, 2010.
  8. (\*) “Improvisation for Engineering Education,” with Ludovice, P., Catrambone, R., Proc. ASEE National Meeting, Louisville, KY, Paper AC-2010-1650, June 2010.
  9. (\*) “Non-Traditional Methods to Enhance Creativity for Engineering Innovation,” with Ludovice, P., Catrambone, R., AICHe National Meeting, Nashville, TN (paper 88b), November, 2009.
  10. (\*) *An Introduction to Parallel and Vector Scientific Computing*, with Ronald Shonkwiler, Cambridge Texts in Applied Mathematics, Cambridge University Press (2006).
  11. “Penalty finite element approximations of the stationary power-law Stokes problem,” with Dongming Wei, *J. Numer. Math.* 11 (2003), no. 4, 301—322.
  12. “A penalty method for approximations of the stationary power-law Stokes problem,” with Dongming Wei, *Electron. J. Differential Equations* (2001), No. 7, 12 pp.
  13. “A priori  $L^r$  error estimates for Galerkin approximations to porous medium and fast diffusion equations,” with Dongming Wei, *Mathematics of Computation*, 68 (1999), no. 227, 971—989.
  14. “Uniqueness for small solutions to a superlinear boundary value problem at resonance,” *Nonlinear Analysis*, 29 (1997), no. 8, 927—935.
  15. “Numerical approximation of the first eigenpair of the  $p$ -Laplacian using finite elements and the penalty method,” with Dongming Wei, *Numer. Funct. Anal. Optim.*, 18 (1997), no. 3-4, 389—399.
  16. “Positive solutions for a two-point nonlinear boundary value problem with applications to semilinear elliptic equations,” with Jairo Santanilla, *Differential Integral Equations*, 9, (1996), no. 6, 1293—1304.

17. “Calculus&Mathematica: An End-User's Point of View,” with Enid Steinbart, *PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies*, Volume 5, Number 1, (1995), pp. 80—96.
18. “Resonance and quasilinear parabolic partial differential equations,” with Victor Shapiro, *J. Differential Equations*, 101 (1993), no. 1, 148—177.
19. “Quasilinear ellipticity and jumping nonlinearities,” with Victor Shapiro, *Rocky Mountain J. Math.* 22 (1992), no. 4, 1385—1403.
20. “Small Solutions to BVP's at Resonance with Nonhomogeneous Nonlinearity,” in *Ordinary Differential Equations and Delay Equations*, J. Wiener and J. Hale eds., Pitman Research Notes in Mathematics Series Number 272 (1992), pp. 106—110.
21. “Existence of small solutions to a resonant boundary value problem with large nonlinearity,” *J. Differential Equations*, 85 (1990), no. 1, 171—185.

## B. Presentations

1. Feb. 2026, Math in Makerspaces, Gathering for Gardner 16, San Francisco CA
2. Jan. 2024, Mathematical Comedy, Joint Mathematics Meetings, San Francisco, CA
3. Apr. 2022, Mathematical Comedy, Gathering for Gardner 14, Atlanta GA
4. Aug. 2019, Applied Humor: Communication, Education, Innovation, Applied Improvisation Network World Conference, Stony Brook NY
5. Oct. 2015, *Distributed Computing and the Internet: How your networked device can help advance mathematics*, Mathematics Undergraduate Colloquium at the University of North Texas.
6. July 2015, *Humor in STEM Communication*, University Research Magazine Association meeting, Georgia Tech.
7. Oct. 2013, *Improvisation and Innovation Workshop* with Pete Ludovice, Georgia Tech, GT 2803.
8. Nov. 2012, *Improvisation and Innovation Workshop* with Pete Ludovice, Georgia Tech Women's Leadership Conference.
9. June 2012 - Sep. 2018, *Improvisation and Innovation Workshop*, with Pete Ludovice, CHBE Senior Design Course.
10. Feb. 2012, Featured Speaker, 25th Annual Georgia Perimeter College Math Conference, Clarkston GA.
11. Nov. 2011, *The Matrix: A Shared Infrastructure Initiative in Support of an Academic Private Cloud*, University System of Georgia Annual Computing Conference at Rock Eagle, Eatonton, GA.
12. Apr. 2011, Colloquium Speaker, Portland State University, Portland, OR.
13. Apr. 2011, Opening Speaker, ORMATYC/WAMATYC Northwest Two-Year College Mathematics Conference, Skamania, WA.
14. Nov. 2010, Keynote speaker, American Mathematical Association of Two-Year Colleges (AMATYC) national annual meeting, Boston, MA.
15. October 2010, *Improvisation Methods to Catalyze Engineering Creativity*, with Ludovice, P., Frontiers in Education Annual Conference, Washington, DC.
16. September 2010, *Improvisation for Engineering Innovation*, with Ludovice, P., AIChE Midwest Regional Conference, Chicago, IL.
17. Apr. 2008, Two invited addresses (one comedy, one math) at the MAA Ohio Regional meetings, Marietta, OH.

18. Nov. 2007, Invited hour address, American Mathematical Association of Two-Year Colleges (AMATYC) national annual meeting, Minneapolis, MN.
19. Apr. 2006, Invited hour address, MAA Southern California-Nevada Section meeting, California State University, San Bernardino, CA.
20. Apr. 2006, Special Evening Lecture, Harvey Mudd College, Claremont, CA.
21. Apr. 2006, Intellectual Life Lecture Series, California State University, San Bernardino, CA.
22. Mar. 2005, Opening lecture, California Mathematics Council Community Colleges South (CMC3S) annual meeting, Anaheim, CA.
23. Mar. 2004, Invited hour address, MAA Louisiana-Mississippi Section meeting, Southeastern Louisiana University, Hammond, LA.
24. Jul. 2003, Invited hour address, National Mu Alpha Theta Convention, Emory University, Atlanta, GA.
25. Apr. 2001, Colloquium, The Citadel, Charleston SC.
26. Apr. 2000, Colloquium, Clemson University, Clemson SC.
27. Oct. 1998, Special Session on Boundary Value Problems, AMS Southeastern Section Meeting, Wake Forest University, Winston-Salem, NC.
28. Feb. 1998, Colloquium, Xavier University, New Orleans, LA.
29. Feb. 1998, Colloquium, University of South Alabama, Mobile, AL.
30. Feb. 1997, Seminar lecture, Sandia National Laboratories, Albuquerque NM.
31. Feb. 1997, Seminar lecture, University of New Mexico.
32. Jan. 1995, Invited panelist for the Project NExT discussion on ``Keeping your research alive, AMS annual meeting, San Francisco, CA.
33. Nov. 1994, Inaugural hour address, International Conference of Association for Simulation and Modeling, New Orleans, LA.
34. Oct. 1993, Special Session on Nonlinear Partial Differential Equations, AMS sectional meeting, Texas A&M University, College Station TX.
35. Apr. 1992, Colloquium, St. Olaf College, Northfield, MN.
36. Nov. 1991, Invited hour address, International Conference on Technology in the Classroom, Portland, OR.

### C. Grants and Contracts

1. Title of Project: Proto-OKN Theme 1 CollabNext: A Person-Focused Metafabric for Open Knowledge Networks  
 Agency/Company: National Science Foundation Award # 2333737  
 Total Dollar Amount: \$1,365,875  
 Role: PI  
 Collaborators: Kexin Rong, Asst. Professor, School of Computer Science, GT, Didier Contis
2. Title of Project: Science and Technology Observatory  
 Agency/Company: National Science Foundation (*not funded*)  
 Total Dollar Amount: \$30,000,000  
 Role: co-PI  
 Collaborators: Cassidy Sugimoto, Chair, School of Public Policy GT  
 Didier Contis, IT Director, College of Engineering GT  
 Renata Rawlings-Goss, Director, South Big Data Hub

- Period of Contract: 9/1/2023 – 8/31/2028
3. Title of Project: IT Student Workers  
 Agency/Company: Georgia Tech Strategic Plan Advisory Group (SPAG)  
 Total Dollar Amount: \$104,000  
 Role: PI  
 Collaborators: Didier Contis, IT Director, College of Engineering  
 Justin Filoseta, IT Director, College of Sciences  
 Uwanna Smith, IT Director, College of Computing  
 Jeff Fischer, IT Director, Professional Education  
 Zach Gorman, IT Director, Scheller College of Business  
 Perry Minyard, IT Director, College of Design  
 Steve Hodges, IT Director, Ivan Allen College  
 Jeff Jenkins, Director of Information Systems, GTRI  
 David Leonard, Director of OIT Academic and Research Technologies  
 James Pete, Director, Campus Services IT Group  
 Gabe Vannice, IT Support Professional Lead, EBB
- Period of Contract: 7/1/2017 – 6/30/2019  
 Candidate's Share: 100%
4. Title of Project: Unique Educational Technologies in Mathematics  
 Agency/Company: Georgia Tech Technology Fee  
 Total Dollar Amount: \$41,016  
 Role: PI  
 Period of Contract: 7/1/2014 – 6/30/2015  
 Candidate's Share: 100%
5. Title of Project: Virtualization Licenses for the Clough Undergraduate Learning Commons  
 Agency/Company: Georgia Tech Technology Fee  
 Total Dollar Amount: \$7,234  
 Role: PI  
 Period of Contract: 7/1/2013 – 6/30/2014  
 Candidate's Share: 100%
6. Title of Project: Linux Virtual Machines for Mathematical Software  
 Agency/Company: Georgia Tech Technology Fee  
 Total Dollar Amount: \$63,336  
 Role: PI  
 Period of Contract: 7/1/2013 – 6/30/2014  
 Candidate's Share: 100%
7. Title of Project: Video Studio to Support Online Educational Initiatives  
 Agency/Company: Georgia Tech Technology Fee  
 Total Dollar Amount: \$48,984  
 Role: PI  
 Period of Contract: 12/1/2012 – 6/30/2013  
 Candidate's Share: 100%

8. Title of Project: Improved Virtualization in the Clough Undergraduate Learning Commons  
Agency/Company: Georgia Tech Technology Fee  
Total Dollar Amount: \$28,580  
Role: PI  
Period of Contract: 12/1/2012 – 6/30/2013  
Candidate's Share: 100%
9. Title of Project: College of Sciences Shared Virtualization  
Agency/Company: IBM Matching Grant Program  
Total Dollar Amount: \$33,017  
Role: PI  
Period of Contract: 5/1/2012 – 6/30/2012  
Candidate's Share: 100%
10. Title of Project: Clough Undergraduate Learning Cloud  
Agency/Company: Georgia Tech Technology Fee  
Total Dollar Amount: \$307,795  
Role: PI  
Period of Contract: 1/1/2011 – 6/30/2011  
Candidate's Share: 100%
11. Title of Project: Scaling up Mathematical Computations,  
Agency/Company: NSF Award #1026243  
Total Dollar Amount: \$115,000  
Role: PI  
Period of Contract: 6/1/2010 – 6/30/2011  
Candidate's Share: 100%
12. Title of Project: iSCSI Disk Array  
Agency/Company: IBM Matching Grant Program  
Total Dollar Amount: \$21,401  
Role: PI  
Period of Contract: 5/1/2010 – 6/30/2010  
Candidate's Share: 100%
13. Title of Project: Scalable Storage Area Network  
Agency/Company: Georgia Tech Technology Fee  
Total Dollar Amount: \$43,950  
Role: PI  
Period of Contract: 2/1/2010 – 6/30/2010  
Candidate's Share: 100%
14. Title of Project: Virtual Machines to Deliver Mathematical Software  
Agency/Company: Georgia Tech Technology Fee  
Total Dollar Amount: \$55,660  
Role: PI  
Period of Contract: 12/1/2009– 6/30/2010  
Candidate's Share: 100%

15. Title of Project: Loaner Laptops  
 Agency/Company: IBM Matching Grant Program  
 Total Dollar Amount: \$14,570  
 Role: PI  
 Period of Contract: 12/1/2009– 6/30/2010  
 Candidate's Share: 100%
16. Title of Project: Distributed Desktop Computing  
 Agency/Company: Georgia Tech Technology Fee  
 Total Dollar Amount: \$90,240  
 Role: PI  
 Period of Contract: 12/1/2007 – 6/30/2008  
 Candidate's Share: 100%
17. Title of Project: Mathematics Undergraduate Learning Lab  
 Agency/Company: Georgia Tech Technology Fee  
 Total Dollar Amount: \$70,414  
 Role: PI  
 Period of Contract: 12/1/2005 – 6/30/2006  
 Candidate's Share: 100%
18. Title of Project: A Mobile Wireless Computing Lab  
 Agency/Company: Georgia Tech Technology Fee  
 Total Dollar Amount: \$110,083  
 Role: PI  
 Period of Contract: 12/1/2003 – 6/30/2004  
 Candidate's Share: 100%
19. Title of Project: Enhancements to Mathematics Computational  
 Laboratory  
 Agency/Company: Georgia Tech Technology Fee  
 Total Dollar Amount: \$38,311  
 Role: PI  
 Period of Contract: 12/1/2001 – 6/30/2002  
 Candidate's Share: 100%

#### **D. Other Scholarly and Creative Accomplishments**

- Data Management at Georgia Tech, Internal white paper, 2016.
- Developing a STEM cooperative extension service, think piece, 2016.
- A plan for sustainable HPC at Georgia Tech, Internal white paper, 2015.

#### **E. Research Interests**

Scalable scientific computing, applied mathematics, data management, data analytics, parallel numerical algorithms, applications of humor and improvisation, deliberate innovation, the maker movement, and hands-on STEAM education.

### **VII. Service**

#### **A. Professional Contributions**

1. 2022, HBCU-MSI Working Group for Research Next strategic initiative
2. 2019, Chair of search committee for Chief Technology Officer (CTO)
3. 2021 Invited Contributor to Educause Horizon Report on Data Analytics
4. 2009, Reviewer for NSF SCREMS proposals.
5. 2006, Conference Participant, Workshop on the State-of-the-Art in Scientific and Parallel Computing, Umeå, Sweden.
6. 1999, Profiled in "The PhD of Comedy," cover story for Math Horizons, MAA Press.
7. 1997, 1999, Remarks from 1995 Project NExT panel discussion on "Keeping your Research Alive," published by the AMS in "Starting our Careers: A Collection of Essays and Advice on Professional Development from the Young Mathematicians' Network," Curtis Bennett and Annalisa Crannell, editors (1999). Also, excerpted in "Tomorrow's Professor: Preparing for Academic Careers in Science and Engineering," by Richard Reis, IEEE Press, (1997).
8. Ongoing, Referee for numerous academic journals including Memoirs of the AMS, Nonlinear Analysis, The Electronic Journal of Differential Equations, Rocky Mountain Journal of Mathematics, Differential and Integral Equations. SIAM Journal on Scientific Computing, SIAM journal on Numerical Analysis.
9. Ongoing, Reviewer for the Mathematical Reviews.

## **B. Public and Community Service**

1. 2014 – 2022, Atlanta Science Festival, organized major partner events: Science Improv, Science Rock and Comedy show, Geekapalooza (geeky standup comedy), Science Today talk show.
2. 2019 - 2022 Science Riot comedy show, producer for Atlanta.
3. 2013 – 2019, Co-producer Maker Faire Atlanta and Atlanta Mini-Maker Faire
4. 2012 – present, Founding Director of Decatur Makers, a diverse community makerspace
5. 2008, Intel International Science and Engineering Fair Judge.
6. 1992, Co-founder Brown! Improv group, New Orleans
7. 1992, Co-founder Comedy Gumbo, New Orleans
8. 1982 – present, Stand-up comedian, Improv performer. Performed various comedy routines, mathematics humor presentations, and mathematics awareness presentations for dozens of audiences

## **C. Institute Contributions**

1. 2022 – present, HBCU\_MSI Working Group for Research Next
2. 2021 – present, Campus Data Governance Committee
3. 2021 – present, Institute Strategic Plan Data Excellence Steering Committee
4. 2021 – present, IRIS Dataset Administrator
5. 2021 – present, Research Administration systems working groups
6. 2020 – present, Established and led PACE Faculty Advisory Committee
7. 2019 – present, Various search committees for both academic and administrative leadership roles, including chair of the search for the OIT Executive Director of Academic Technologies, Research Computing, and Innovation.

8. 2020 – 2022, Various ad-hoc COVID-19 working groups, task forces, and committees
9. 2019 – 2020, Technology Governance Committee
10. 2019 – 2020, Led Institute Strategic Plan working group on "Lead by Example"
11. 2019 – 2020, Chair of search committee for Chief Technology Officer (CTO)
12. 2017 – 2020, NIST 800-171 steering committee.
13. 2017 – 2019, Technology Strategy Partners.
14. 2017 – 2019, Data Center Consolidation project advisory group.
15. 2016 – 2018, Participant and steering committee of the Provost's Commission on Creating the Next in Education (CNE). Co-editor of final report. Participant in CNE's Flashpoint Formative Leadership Development program.
16. 2016, EVPR's internal HPC advisory group.
17. 2015, Learning Management System Steering Committee.
18. 2015, NSF Data Management plan group.
19. 2015, VAPOR steering committee (collaboration between academic IT and OIT)
20. 2015, major contributor to design and implementation of IT shared services model for EBB.
21. 2014 – 2016, appointed by the Dean as College representative to the Georgia Tech Strategic Technology Investment Committee (STIC in IT Governance).
22. 2014 – 2016, School of Math CDO (Communication, Development, and Outreach) committee.
23. 2013 – 2015, Georgia Tech Campus Profile System (GT Scholar) Implementation and Planning Team.
24. 2013, Campus Data Access Policy team.
25. 2012 – 2015, appointed by the Dean as College representative to the Georgia Tech Technology Experts Council (TEC IT Governance).
26. 2012, 2013, Georgia Tech Campus Awards Committee.
27. 2010 – 2017, Chair of the HPC Faculty Governance Committee at Georgia Tech.
28. 2010, Chair of Administrative Service Award Committee.
29. 2007, Georgia Tech Campus Educational Technology Program Board.
30. 2007, Participant in the Information Technology Best Practices judging committee.
31. 2006 – 2014, College of Sciences representative on the Georgia Tech Computer and Information Security Response Team.
32. 2003, Chairman of the Georgia Tech College of Sciences ad hoc Computer and Network Usage Policy Committee.
33. 2002 – present, Member of the Georgia Tech campus wide Information Technology Advisory Committee (ITAC).
34. 1999, 2000, 2004, USENIX Large Installation System Administration (LISA) conference.
35. 1995 – 1998, Graduate coordinator, UNO mathematics department.
36. 1991 – 1999, UNO Department of Mathematics, primary responsibility for all department system administration.