

Kyle T. Mandli

July 2, 2024

CONTACT INFORMATION

Flatiron Institute
Simons Foundation
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New York, NY 10010

Center for Computational Mathematics
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FIELDS OF SPECIALIZATION

Computational Mathematics with Applications to Coastal Storm Flooding

EDUCATION

Ph.D., University of Washington, Applied Mathematics, August 2011

- Advisor: Randall J. LeVeque
- Thesis: “Finite Volume Methods for the Multilayer Shallow Water Equations with Applications to Storm Surges”

M.Sc., University of Washington, Applied Mathematics, June 2005

B.S. Applied Mathematics, Engineering and Physics, University of Wisconsin, May 2004

POSITIONS

Flatiron Institute - Center for Computational Mathematics, Simons Foundation

- Research Scientist, October 2023 - Present

Department of Applied Physics and Applied Mathematics, Columbia University

- Assistant Professor, July 2014 - June 2019.
- Associate Professor, July 2019 - June 2023
- Associate Research Scientist, July 2023 - September 2023

Institute for Computational and Engineering Science, University of Texas at Austin

- Research Associate, September 2013 - August 2014.
- JTO Fellow, September 2012 - September 2013.
- ICES Postdoctoral Research Fellow, September 2011 - September 2012.

Applied Mathematics Department, University of Washington

- Research Assistant, 2004-2011.
- Teaching Assistant, 2004-2010.

HONORS, PRIZES AND FELLOWSHIPS

Elected Sigma XI Full Fellow, 2020

Early Career Faculty Innovator Program, NCAR, 2019-2021

NSF Vigre Graduate Fellow, University of Washington, 2008-2009

Boeing Award for Service, University of Washington, 2007

ARCS Graduate Fellowship, University of Washington, 2004-2007

Top Scholar Award, University of Washington, 2004-2005

Applied Math, Engineering and Physics Leadership Prize, University of Wisconsin, 2003

Submitted

1. Miura, Y., Mandli, K.T., Deodatis, G.. “Modeling Storm Surges with a Bounded Probability Distribution”. Submitted (2023).
2. Miura, Y., Blackshaw, C.Y., Zhang, M.S., Mandli, K.T., Deodatis, G.. “Flood Risk Assessment for Subway Systems in NYC with GIS-based Subdivision-Redistribution Methodology”. Submitted (2023).

Published Refereed Journal Papers

1. Sarhadi, A., Rousseasu-Rizzi, R., Mandli, K.T., Neal, J., Wiper, M.P., Feldmann, M., Emmanuel, K. “Climate change intensifies compound flooding risk of tropical and extratropical cyclones in New York City”. *Bulletin of the American Meteorological Society*. Vol. 105, Iss. 2, (2024).
2. Hoagland, S., Jeffries, C., Irish, J., Weiss, R., Mandli, K. T., Vitousek, S., Johnson, C., Cialone, M. “Advances in morphodynamic modeling of coastal barriers: A review”. *Journal of Waterway, Port, Coastal, and Ocean Engineering*. Vol. 149, Iss. 5, (2023).
3. Zheng, Y., Hau, H., Spera, F.J., Scruggs, M., Thompson, G., Jin, Y., Lapen, T., McNutt, S.R., Mandli, K.T., Peng, Z., Yuen, D.A. ”Episodic Magma Hammers in the Recent Cataclysmic Eruption of Hunga Tonga-Hunga Ha’apai”. *Geophys Res Lett* 50, (2023).
4. Rim, D., B. Peherstorfer & Mandli, K. T. Manifold Approximations via Transported Subspaces: Model reduction for Transport-Dominated problems. *SISC* Vol. 45, Iss. 1, (2023).
5. Yuen, D.A., Scruggs, M.A., Spera, F.J., Zheng, Y., Hu, H., McNutt, S.R., Thompson, G., Mandli, K.T., Keller, B.R., Wei, S.S., Peng, Z., Zhou, Z., Mulargia, F., Tanioka, Y. “Under the surface: Pressure-induced planetary-scale waves, volcanic lightning, and gaseous clouds caused by the submarine eruption of Hunga Tonga-Hunga Ha’apai volcano”. *Earthquake Research Advances*, Vol. 2, Is. 3 (2022).
6. Bukvic, A., Mandli, K.T., Finn, D., Mayo, T., Wong-Parodi, G., Merdjanoff, A., David, C., Haacker, R., Morss, R., O’leinick, C., Wilhelmi, O., Lombardozzi, D., Alland, J. “Advancing Interdisciplinary and Convergent Science for Communities: Lessons Learned Through the NCAR Early-Career Faculty Innovator Program”. Published in *BAMS* (2022).
7. Finn, D., Mandli, K.T., Bukvic, A., David, C., Haacker, R., Morss, R., O’leinick, C., Wilhelmi, O., Wong-Parodi, G., Merdjanoff, A., Mayo, T., “Moving from Interdisciplinary to Convergent Research Across Geoscience and Social Sciences: Challenges and Strategies”. *Environ. Res. Lett.* 17 (2022).
8. T. Chegini, G. Coelho, J. Ratliff, C. Ferriera, K. T. Mandli, P. Burke, H. Li. A Novel Framework for Parametric Analysis of Coastal Transition Zone Modeling. *JAWRA* (2022).
9. A. Raney & Y. Feng & D. Blodgett & K. T. Mandli. An open-source Python library for varying model parameters and automating concurrent simulations of the National Water Model. Accepted to *Journal of the American Water Resources Association* (2021).
10. Miura, Y., & Dinenis, P. C., & Mandli, K. T., Deodatis, G., & Bienstock, D. (2021). Optimization of Coastal Protections in the Presence of Climate Change. *Frontiers in Climate*, 3, 613293.
11. Yin, D., Muñoz, D.F., Bakhtyar, R., Xue, Z.G., Moftakhari, H., Ferreira, C., and K. T. Mandli. ” Extreme Water Level Simulation and Component Analysis in Delaware Estuary during Hurricane Isabel.” *Journal of the American Water Resources Association* 1–15 (2021).
12. D. Muñoz, D. Yin, R. Bakhtyar, H. Moftakhari, G. Xue, Mandli, K.T., C. Ferreira. Inter-model comparison of Delft3D-FM and 2D HEC-RAS for Total Water Level Prediction in Coastal to Inland Transition Zones. *Journal of the American Water Resources Association* (2021).
13. Islam, M.R., Lee, CY., Mandli, K.T. et al. A new tropical cyclone surge index incorporating the effects of coastal geometry, bathymetry and storm information. *Sci Rep* 11, 16747 (2021).

14. C. J. Conroy, Mandli, K. T., E. J. Kubatko. Numerical Numerical Considerations for Quantifying Air–Water Turbulence with Moment Field Equations. *Water Waves* 3, 319-354 (2021).
15. Miura, Y., Deodatis, G. Mandli, K.T.. High-Speed GIS-Based Simulation of Storm Surge–Induced Flooding Accounting for Sea Level Rise. *Natural Hazards Review*, 22(3) (2021).
16. Conroy, C.J., Mandli, K.T. & Kubatko, E.J. Quantifying air–water turbulence with moment field equations. *Journal of Fluid Mechanics*, 917, A39 (2021).
17. Miura, Y., Qureshi, H., Chanyang, R., Dinenis, P. C., Li, J., Mandli, K.T., Deodatis, G., Bienstock, D., Lazrus, H., and Morss, R.. “A Methodological Framework for Determining an Optimal Coastal Protection Strategy against Storm Surges and Sea Level Rise.” *Natural Hazards*, March 8, 2021. <https://doi.org/10.1007/s11069-021-04661-5>.
18. Li, J., and Mandli, K.T. “An h -Box Method for Shallow Water Equations Including Barriers.” *SIAM Journal on Scientific Computing* 43, no. 2 (January 2021): B431–54. <https://doi.org/10.1137/19M12>
19. S. Marras, K. T. Mandli. Towards the Next Generation of Tsunami Impact Simulations. *MDPI GeoSciences* (2020).
20. E. Meselhe & K. T.M. Asgari & K. Flint & S. Matus & Mandli, K.T., & E. White. Continental Scale Heterogenous Channel Routing Strategy for Operational and Forecast Models. *Journal of the American Water Resources Association* (2020).
21. Sobel, A.H., Lee, C., Camargo, S., Qureshi, H., Mandli, K.T., Emmanuel, K. Mukhopadhyay, P. & Mahakur, M. Tropical cyclone hazard to Mumbai. *Monthly Weather Review* (2019).
22. Rim, D. & Mandli, K. T. Displacement Interpolation Using Monotone Rearrangement. *SIAM/ASA Journal on Uncertainty Quantification* 6, 1503–1531 (2018).
23. Conroy, C.J., Kubatko, E. J., Nappi, A., Sebian, R., West, D., Mandli, K. T. hp discontinuous Galerkin methods for parametric, wind-driven water wave models. *Advances in Water Resources* 119, 70–83 (2018).
24. Navarro, M., Le Maître, O. P., Hoteit, I., George, D. L., Mandli, K. T., Knio, O. M. Surrogate-based parameter inference in debris flow model. *Computational Geosciences* 50, 306 (2018).
25. Haritashya, U. K., Kargel, J.S., Shugar, D.H., Leonard G.J., Strattman, K., Watson, C.S., Shean, D., Harrison, S., Mandli, K.T., Regmi, D. Evolution & Controls of Large Glacial Lakes in the Nepal Himalaya. *Remote Sensing* 10(5), 798 (2018).
26. Kumar Jain, P., Mandli, K., Hoteit, I., Knio, O. & Dawson, C. Dynamically adaptive data-driven simulation of extreme hydrological flows. *Ocean Modelling* 122, 85-103 (2018).
27. Giraldi, L., Le Maître, O.P, Mandli, K.T., Dawson, C.N., Hoteit, I., Knio, O.M. Bayesian inference of earthquake parameters from buoy data using a polynomial chaos-based surrogate. *Computational Sciences* 21, 683-699 (2017).
28. Sraj, I., Mandli, K. T., Knio, O. M., Dawson, C. N. & Hoteit, I. Quantifying uncertainties in fault slip distribution during the Tohoku tsunami using polynomial chaos. *Ocean Dynamics* 67:9, 1535-1551 (2017).
29. Mandli, K.T., Ahmadi, A.J., Berger, M.J., Calhoun, D.A., George, D.L. Hadjimichael, Y., Ketcheson, D.I., Lemoine, G.I., & LeVeque, R. J.. Clawpack: building an open source ecosystem for solving hyperbolic PDEs. *PeerJ Computer Science* 2, e68 (2016).
30. Höllt, T., Altaf, M.U., Mandli, K.T., Hadwiger, M., Dawson, C.N., & Hoteit, I. Visualizing uncertainties in a storm surge ensemble data assimilation and forecasting system. *Natural Hazards* 77, (2015).
31. Sraj, I., Mandli, K. T., Knio, O. M., Dawson, C. N. & Hoteit, I. Uncertainty quantification and inference of Manning’s friction coefficients using DART buoy data during the Tohoku tsunami. *Ocean Modelling* 83, 82-97 (2014).
32. Mandli, K. T. & Dawson, C. N. Adaptive Mesh Refinement for Storm Surge. *Ocean Modelling* 75, 36–50 (2014).

33. Mandli, K. T. A Numerical Method for the Two Layer Shallow Water Equations with Dry States. *Ocean Modelling* 72, 80-91 (2013).
34. Ketcheson, D.I., Mandli, K.T., Ahmadi, A., Alghamdi, A., Quezada, M., Parsani, M., Knepley, M.G., & Emmett, M. PyClaw: Accessible, Extensible, Scalable Tools for Wave Propagation Problems. *SIAM Journal on Scientific Computing*, 34(4), C210-C231, (2012).
35. Berger, M. J., George, D. L., LeVeque, R. J. & Mandli, K. T. The GeoClaw software for depth-averaged flows with adaptive refinement. *Advances in Water Resources*, 34, 1195–1206 (2011).
36. Mandli, K. T. Finite Volume Methods for the Multilayer Shallow Water Equations with Applications to Storm Surges. (University of Washington, 2011).

Peer Reviewed Conference Proceedings

1. Ferreira, C. R., Mandli, K.T. & Bader, M. Vectorization of Riemann solvers for the single- and multi-layer shallow water equations. *International Conference on High Performance Computing and Simulation* (2018). doi:10.1109/HPCS.2018.00073.
2. Huang, Y., Guo, N., Seok, M., Tsvividis, Y., Mandli, K.T., Sethumadhavan, S. Hybrid analog-digital solution of nonlinear partial differential equations. In conference proceedings of MICRO, 665-678 (ACM, 2017).
3. Burstedde, C., Calhoun, D. A., Mandli, K. & Terrel, A. R. ForestClaw: Hybrid forest-of-octrees AMR for hyperbolic conservation laws. in *ParCo 2013* (eds. Bader, M. et al.) 25, 253-262, (2013)
4. Terrel, A. R. & Mandli, K. T. ManyClaw: Slicing and dicing Riemann solvers for next generation highly parallel architectures. in *Proceedings of TACC-Intel Symposium on Highly Parallel Architectures*, arXiv:1308.1464 [cs.CE] (2012).

Published Books

1. “Teaching and Learning with Jupyter” by Lorena A. Barba, Lecia J. Barker, Douglas S. Blank, Jed Brown, Allen B. Downey, Timothy George, Lindsey J. Heagy, Kyle T. Mandli, Jason K. Moore, David Lippert, Kyle E. Niemeyer, Ryan R. Watkins, Richard H. West, Elizabeth Wickes, Carol Willing, and Michael Zingale. <https://jupyter4edu.github.io/jupyter-edu-book/>, 2018.

		All	Since 2019
Google Scholar (July 2, 2024).	Citations	1585	1160
	h-index	20	17
	i10-index	31	27

G. PATENTS AND SOFTWARE DEVELOPMENT

Numerical Methods Course Notes - Open source teaching materials developed as interactive Jupyter notebooks for teaching numerical methods courses.

Available from <https://github.com/mandli/intro-numerical-methods> and <https://github.com/mandli/numerical-methods-pdes>.

PyClaw - A scalable nonlinear wave propagation solver in Python. Available from <http://www.github.com/clawpack/pyclaw>.

GeoClaw - A Clawpack based shallow water solver employing adaptive mesh refinement. Available from <http://www.github.com/clawpack/geoclaw>.

Clawpack - Conservation Laws Package, a nonlinear wave propagation solver. Available from <http://www.github.com/clawpack/>.

ManyClaw - Research into exploitation of intra-node parallelism for hyperbolic PDE solvers via Clawpack like interfaces. Available from <http://www.github.com/manyclaw/>

Instructor

- *APMA 6901* - Finite Volume Methods for Hyperbolic PDEs
- *APMA 6901* - Uncertainty Quantification (co-taught with M. Tippett)
- *APMA 4302* - Methods in Computational Science
- *APMA 4301* - Numerical Methods for PDEs
- *APMA 4300* - Introduction to Numerical Methods
- *APMA 3102* - Applied Mathematics II - Partial Differential Equations
- *Gene Golub Summer School 2012* - Simulation and Supercomputing in the Geosciences.

Advising

Junior Faculty Mentorship

- * Donsub Rim - Chu Non-tenure track Assistant Professorship - Accepted tenure track assistant professorship at Washington University at St. Louis.

Postdoc

- * Alvin Zhang - Postdoctoral Researcher, co-advised with U.S. Army Corp of engineers (Chris Kees), 01/01/2020-present - research scientist with private company.
- * Colton Conroy - Postdoctoral Researcher, 05/01/2015-08/31/2017 - Currently Lamont researcher.

Graduate Students

- * Philip Dinenis - 5th year - doctoral student co-advisor (with Dan Bienstock), graduated 2023.
- * Chanyang Ryoo - doctoral student advisor, graduated 2022. “Development of Cut Cell Methods for Barrier Simulations with Shallow Water Equations”.
- * Yuki Miura (Civil) - co-advised with George Deodatis, graduated 2022. “Optimization of Coastal Protective Strategies Against Flooding and Sea level Rise”
- * Jiao Li - doctoral student advisor, graduated 2019. “An h-box Method for Shallow Water Equations”. Quantitative analyst for Barclays.
- * Pushkar Kumar - Co-advised doctoral student at University of Texas at Austin, graduated summer 2018. “Dynamically adaptive data-driven simulation of extreme hydrological flows”

Thesis Advising

- * Doctoral Theses: Philip Dinenis (2023), Yuki Miura (2022), Judah Ryoo (2022), Jiao Li (2019); Pushkar Jain (2018).
- * Doctoral Theses as Reader: Ernesto Guerrero Fernández, Kathy Li, Sean Harnett, Qian Peng, Luc Berger-Vergiat, Dan Shaevitz, Eric Isaacs, Ning Guo, Yipeng Huang, Xiaochuan Tian, Hasan Cagen Ozen, Hongjian Qi, Kristof Unterweger (TUM, CS), Melanie Bieli, Roshan Sharma, Dominic Charrier (Durham, CS).
- * M.S. Theses: André Malcher (TUM, CS)
- * B.S. Theses: Antoine Crèpin (ENSTA-ParisTech), Ben Wallyn (ENSTA-ParisTech, math), Alexander Laveissiere (ENSTA-ParisTech, math)

Non-Thesis Advising

- * Masters Students: Nav Ravindranath, Hugh Krogh-Freeman, Akshay Sripada, Huda Qureshi, and Melody Shi (Ph.D. student at NYU-Courant).
- * Undergraduates: Ana Pérez-Villagómez, Tassneen Bashir, Oni Zhang, Gauri Talwar, Imani Gosserand, Danielle Cai, Sophia White, Daniel Halmos, Abraham Oh, John Lord, Gary Casey, Yanda (David) Chen, Gabe Silverman (Harvard), Joshua Kapilian, Stan Liao, Xinyi (Jessy) Han, Sarah Samuel, Mirah Shi, Rachit Rajat (Ph.D. student at USC), Conner Greene, Ria Garg, Emma Schrechter, Andrew Kluzny (Ph.D. student at Brown), Johnathan Socoy, Akshay Choudhry, Avi Schwarzschild (Ph.D. student at U. Maryland), and Riley Fisher.

* High School: Dean Chapman, David Wang, Yul Kim, Ana Mata-Payerro, Suahila Shankar, Sunay Joshi, Arnab Dey, Angshu Dey, Jeffrey Chen (Berkeley), Christian French, Amishi Mittal, and Maria-Christina Nicolaidis.

INVITED
PRESENTATIONS

Keynote Speaker at CSDMS 2024 Meeting, May 16th, 2024.
Flatiron Institute CCM Seminar, October 24th, 2023.
Stevens Institute of Technology, September 20, 2023.
American Natural History Museum, August 15, 2023.
NOAA GFDL, January 13, 2023.
Floodbase, February 1, 2023.
American Natural History Museum, August 9, 2022.
WCCCM-APCOM 2022, Yokohoma Japan.
Resilient Coastlines Seminar, January 31, 2022.
Columbia Undergraduate Scholars Program, October 26, 2021.
U.S. National Congress on Computational Mechanics, Chicago, IL (virtual), July 25-29, 2021.
2021 Managed Retreat Conference, June 2021.
SIAM GeoSciences, Milan, Italy (virtual), June 21-24, 2021.
SIAM Computational Science and Engineering, Fort Worth, TX (virtual), March 3, 2021.
AGU Invited Talk, San Francisco, CA. December 7, 2020.
Brigham Young University, Utah State Mathematics Seminar, November 9, 2020.
New York Scientific Data Summit, October 20, 2020.
University of Delaware Numerical Analysis Seminar, October 9, 2020.
University of Texas Oden Institute Colloquium, October 8, 2020.
Tulane University, New Orleans, AL. January 15, 2020.
AGU Invited Talk, San Francisco, CA. December 9, 2019.
AGU Invited Workshop Talk, San Francisco, CA. December 8, 2019.
Teaching and Learning with Jupyter, New York University, New York, NY. October 31, 2019.
University of Durham, Durham U.K., September 26th, 2019.
USCACM 2019 Mini-Symposium Keynote Presentation, Austin, July 31, 2019.
ITN Workshop on Shocks and Interfaces, Oxford U.K., July 4, 2019.
U.S. Naval Academy, Annapolis, June 6, 2019.
SIAM Computational Science and Engineering, Spokane, WA, February 27, 2019.
AGU Fall Meeting 2019 Invited Talk, Washington D.C., December 12, 2018.
WCCM 2018 Mini-symposium Keynote Presentation, New York, July 24, 2018.
SIAM Annual Meeting, Portland, OR, July 11, 2018.
University of Alabama, January 29, 2018,
Virginia Tech University, October 27, 2017,
NCAR Workshop on Multiscale Geoscience Numerics, May 16-19, 2017,
Purdue University, May 1, 2017,
Tulane University - Clifford Lectures, April 14, 2017,
SIAM Computational Science and Engineering, Atlanta, GA, March 1, 2017.

Temple University, February 1, 2017,
New York University, February 10, 2017,
India Institute of Technology - Bombay, January 9, 2017,
Boise State, November 3, 2016
SIAM Mathematics of Planet Earth, Philadelphia, PA, September 30, 2016.
HPC for Water Related Hazards, München, June 30, 2016,
Fields Institute, May 25, 2016,
Stevens Institute Davidson Lab Seminar, March 9, 2016,
New Jersey Institute of Technology, Mathematics Seminar, February 19, 2016,
Lamont-Doherty, Ocean and Climate Physics Seminar, October 9, 2015,
SIAM Geosciences, Stanford, CA, July 1, 2015.
Frontiers in Applied and Computational Mathematics Conference, June 6, 2015,
SIAM Computational Science and Engineering, Salt Lake City, UT, March 18, 2015.
University of Notre Dame Environmental Dynamics Seminar, December 9, 2014.
SIAM Annual Meeting, Chicago, IL, July 7, 2014.
Universität Hamburg, May 26, 2014.
ASCETE Workshop, May 21, 2014.
Technische Universität München Seminar, May 19, 2014.
Seattle University Mathematics Colloquium, May 15, 2014.
Iowa State University Mathematics Colloquium, April 21, 2014.
Texas A&M Oceanography Seminar, March 31, 2014.
Columbia University Applied Mathematics Colloquium, March 6, 2014.
SIAM Parallel Computing, Portland, OR, February 19, 2014.
MSU Mathematics Seminar, July 11th 2013.
UNC Applied Mathematics Seminar, April 26th, 2013.
SIAM Computational Science and Engineering, Boston, MA, February 26, 2013.
Gene Golub Summer School, Monterey, CA. July 29-August 10 2012.
SIAM Parallel Computing, Savannah, GA, February 16, 2012.
SIAM Geosciences, Long Beach, CA, March 22, 2011.
SIAM Computational Science and Engineering, Reno, NV, March 1, 2011.
SIAM Annual Meeting, Pittsburgh, PA, July 15, 2010
SIAM Annual Meeting, San Diego, CA, July ,2008.
SIAM Computational Science and Engineering, Costa Mesa, CA, February 21, 2007.

J. SERVICE

Columbia:

Masters Student Advisor
Undergraduate student advisor
Faculty secretary 2014-2016
Columbia SIAM chapter faculty advisor, 2014-2023
Engineering outreach speaker
Climate School Coastal Viability Committee member 2020
Columbia Operating Committee Chair for High Performance Computing, 2015-2023
Bridge to the Ph.D. Faculty Council Member
Foundations for Research Computing advisory committee member
Faculty RFP representative to HPC clusters
Department faculty representative to the SRCPAC training sub-committee
Faculty Advising Board for Columbia Undergraduate Science Journal
Columbia family weekend speaker, 2016 and 2018
Climate School Coastal Viability Committee member 2020
Columbia Operating Committee Chair for High Performance Computing

Service to the Field:

Theme leader for the National Water Center's Summer Institute, 2018-2023 run by NOAA and the National Weather Service
Program committee for the International Symposium on Parallel and Distributed Computing, 2021-2024
Bergen County Academy research mentor 2019-2023
ENVISION Women in STEM competition judge 2021
Convener of "Convergence Research in Climate Science: How to Move Beyond Disciplinary Silos" AGU Fall Meeting 2020
Lead organizer of the 2019 "Future Directions for Enabling Coastal Storm Flooding Prediction for High-Resolution Forecasts and Climate Scenarios" workshop 2019
Program committee for NY Scientific Data Summit 2019
Academic review committee for the International Conference on Sustainable Cities, 2018
University Corporation for Atmospheric Research (UCAR) Congressional Briefing Panelist, 2018
Organized and ran a Center for teaching (CIRTL) workshop on open source principles and education, 2018
Birds of a Feather Co-Chair, SciPy, 2013-2015
Organizer of IMA hot topics workshop "Impact of Waves Along Coastlines", 2014
Co-organized [HPC]³, 2012 and 2014

Funding Agencies:

NSF panelist

DOE panelist

NSF GRFP Reviewer, 2016, 2018, and 2020

NSF site reviewer for NanoHub, 2018, 2020

NSF CRISP PI Meeting Organizing Committee, 2018

Affiliations:

Society for Industrial and Applied Mathematics (2004-Present)

American Geophysical Union (2010-Present)

American Mathematical Society (2010-Present)

United States Association of Computational Mechanics (2018-Present)

Journals: Referee for Science Advances (AAAS), Advances in Computational Mathematics (ACOM), Applied Numerical Mathematics (APNUM), Current Climate Change Reports (CCLR), Computing in Science and Engineering (CiSE), Computational Geosciences (COMG), Computer Physics Communications (CPC), Engineering and Computational Mechanics (EACM), Euro-Par, Finite Volumes for Complex Applications (FVCA), Geophysical Journal International (GJI) Journal of Applied Mathematics and Computing (JAMC), Journal of Computational Physics (JCP), Journal of Nonlinear Science (JNS), Journal of Scientific Computing (JOMP), Mathematical Communications (MATCOM), Natural Hazards (NHAZ), Numerical Algorithms (NUMA), Ocean Modelling (OCEMOD), Ocean Dynamics (OCDYN), Pure and Applied Geophysics (PAAG), Platform for Advanced Scientific Computing (PASC), Science, SIAM Journal of Scientific Computing (SISC), Transport in Porous Media (TIPM), Marine Geodesy (UMG), and Journal of Waterway, Port, Coastal, and Ocean Engineering (WWENG).