SARA POLLOCK: CURRICULUM VITAE

Department of Mathematics
University of Florida
Gainesville, Florida 32611 USA

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https://people.clas.ufl.edu/spollock/

EDUCATION

Ph.D. in Mathematics with specialization in Computational Science (CSME),   2012
    advisor: Michael Holst.
    thesis: *Convergence of goal-oriented adaptive finite element methods.*
    University of California, San Diego, La Jolla, CA.

M.S. in Applied Mathematics,   2008
    University of Washington, Seattle, WA.

B.S. in Mathematics (minor in Physics),   2007
    University of New Mexico, Albuquerque, NM.

Studio Art Diploma (four year program of study),   1998
    School of the Museum of Fine Arts, Boston, MA.

APPOINTMENTS

Associate Professor, Mathematics, University of Florida.	2021-present
Assistant Professor, Mathematics, University of Florida.	2018-2021
Assistant Professor, Mathematics & Statistics, Wright State University.	2016-2018
Visiting Assistant Professor, Mathematics, Texas A&M University.	2013-2016
Postdoctoral Researcher and Teaching Visitor, Mathematics, UC San Diego.	2012-2013

RESEARCH INTERESTS

Design and analysis of numerical methods for nonlinear partial differential equations, nonlinear solvers and acceleration methods, extrapolation methods for nonlinear and eigenvalue problems, modeling and approximation methods for non-Newtonian flows, multiscale methods for linear and nonlinear problems, discrete comparison principles and uniqueness of solutions, adaptive finite element methods, adaptive regularization, goal oriented methods, inverse-kinematics.

FUNDING

- NSF DMS-2045059, CAREER: Extrapolation Methods for Matrix and Tensor Eigenvalue Problems. Principal Investigator, $424,335.   2021-2026
- NSF DMS-2212165, Conference: Women in Scientific Computing on Complex Physical and Biological Systems. Co-PI (PI at UF: Chunmei Wang), $27,445.   2022-2023
- NSF DMS-2011519, Collaborative Research: Advancing Theoretical Understanding of Accelerated Nonlinear Solvers, with Applications to Fluids. Principal Investigator (PI at Clemson University: Leo Rebholz), $175,379.   2020-2024
- NSF DMS-1852876 (2018-21), [NSF DMS-1719849 (2017-18)] Regularized Adaptive Methods for Classes of Nonlinear Partial Differential Equations. Principal Investigator, $120,000.   2017-2021
- AWM-NSF Travel Grant, $2,726.   2016

Date: April 4, 2024.

Journal Publications

Links to publications and preprints: `https://people.clas.ufl.edu/spollock/publications/`

33. S. POLLOCK AND L. R. SCOTT, Computational analysis of a contraction rheometer for the grade-two fluid model, *Submitted*, 2024.

32. C. AUSTIN, S. POLLOCK AND Y. ZHU, Dynamically accelerating the power iteration with momentum, *Submitted*, 2024.

31. S. POLLOCK, L. G. REBHOLZ, X. TU AND M. XIAO, Analysis of the Picard-Newton iteration for the Navier-Stokes equations: global stability and quadratic convergence, *Submitted*, 2024.

30. M. DALLAS, S. POLLOCK AND L. G. REBHOLZ, Analysis of an Adaptive Safeguarded Newton-Anderson Algorithm with Applications to Fluid Problems, *Submitted*, 2024.

29. S. POLLOCK AND R. SHROFF, Accelerating the Computation of Tensor Z-eigenvalues, *Submitted*, 2023.

28. S. POLLOCK AND L. G. REBHOLZ, Filtering for Anderson acceleration. SIAM J. Sci. Comput., 45(4), p. A1571-A1590, 2023.

27. M. DALLAS AND S. POLLOCK, Newton-Anderson at singular points. International Journal of Numerical Analysis and Modeling, 20(5), p. 667-692, 2023.

26. X. CAO, E. A. COUTSIAS, AND S. POLLOCK, Numerically stable solution to the 6R problem of inverse kinematics. Advances in Computational Science and Engineering, 1(2), p. 123-161, 2023.

25. S. POLLOCK, L. G. REBHOLZ AND D. VARGUN, An efficient nonlinear solver and convergence analysis for a viscoplastic flow model. Numer. Meth. Part. D.E., 39 (2023), p. 3874– 3896.

24. S. POLLOCK AND L. R. SCOTT, An algorithm for the grade-two rheological model. ESAIM-M2AN, 56(3), p. 1007-1025, 2022.

23. L. R. SCOTT AND S. POLLOCK, Transport equations with inflow boundary conditions. Partial Differential Equations and Applications, 3(35), 2022.

22. S. POLLOCK AND L. R. SCOTT, Extrapolating the Arnoldi algorithm to improve eigenvector convergence. International Journal of Numerical Analysis and Modeling, 18(5), p. 712-721, 2021.

21. S. POLLOCK AND N. NIGAM, A simple extrapolation method for clustered eigenvalues. Numerical Algorithms, 89, p. 115-143, 2022.

20. S. POLLOCK, L. G. REBHOLZ AND M. XIAO, Acceleration of nonlinear solvers for natural convection problems. Journal of Numerical Mathematics, 29(4), p. 1-19, 2021. DOI: 10.1515/jnma-2020-0067.

19. S. POLLOCK AND H. SCHWARTZ, Benchmarking results for the Newton-Anderson method. Results in Applied Mathematics, 8, 11 pgs, 2020. DOI: 10.1016/j.rinam.2020.100095.

18. S. POLLOCK AND L. G. REBHOLZ, Anderson acceleration for contractive and noncontractive operators. IMA Journal of Numerical Analysis, 41(4), p. 2841-2872 2021. DOI: 10.1093/imanum/draa095.

17. C. EVANS, S. POLLOCK, L. G. REBHOLZ AND M. XIAO, A proof that Anderson acceleration improves the convergence rate in linearly converging fixed point methods (but not in those converging quadratically). SIAM J. Numer. Anal., 58(1), p. 788-810, 2020.

16. E. CHUNG, S. POLLOCK AND S. M. PUN, Online basis construction for goal-oriented adaptivity in the Generalized Multiscale Finite Element Method. J. Comput. Phys., 393, p. 59-73, 2019.

15. S. POLLOCK, L. G. REBHOLZ AND M. XIAO, Anderson-accelerated convergence of Picard iterations for incompressible Navier-Stokes equations. SIAM J. Numer. Anal., 57(2), p. 615-637, 2019.

14. S. POLLOCK AND Y. ZHU, A matrix analysis approach to discrete comparison principles for nonmonotone PDE. Numer. Algor., 83(3), p. 1007-1027, 2020.

13. S. Pollock and Y. Zhu, Discrete comparison principles for quasilinear elliptic PDE. Appl. Numer. Math., 156, p. 106-124, 2020.

12. S. Pollock and Y. Zhu, Uniqueness of discrete solutions of nonmonotone PDEs without a globally fine mesh condition. Numer. Math., 139 (4), p. 845-865, 2018.

11. E.T. Chung, S. Pollock, S. M. Pun, Goal-oriented adaptivity of mixed GMsFEM for flows in heterogeneous media. Comput. Methods Appl. Mech. Eng., 323, p. 151-173, 2017.

10. E. A. Coutsias, K. W. Lexa, M. J. Wester, S. N. Pollock, M. P. Jacobson, Exhaustive conformational sampling of complex fused ring macrocycles using inverse kinematics. J. Chem. Theory Comput., 12 (9), p. 4674-4687, 2016.

9. E.T. Chung, W.T. Leung, S. Pollock, Goal-oriented adaptivity for GMsFEM. J. Comput. Appl. Math., 296, p. 625-637, 2016.

8. S. Pollock, Stabilized and inexact adaptive methods for capturing internal layers in quasilinear PDE. J. Comput. Appl. Math., 308, p. 243-262, 2016.

7. S. Pollock, An improved method for solving quasilinear convection diffusion problems on a coarse mesh. SIAM J. Sci. Comput., 38(2), p. A1121-A1145, 2016.

6. S. Pollock, A regularized Newton-like method for nonlinear PDE. Numer. Func. Anal. Opt., 36(11), p. 1493-1511, 2015.

5. M. Holst, S. Pollock, and Y. Zhu, Convergence of goal-oriented finite element methods for semilinear problems. Comp. Vis. Sci., 17(1), p. 43-63, 2015.

4. M. Holst and S. Pollock, Convergence of goal-oriented finite element methods for nonsymmetric problems. Numer. Meth. Part. D.E., 32(2), p. 479-509, 2016.

3. W.M. Brown, S. Martin, S.N. Pollock, E.A. Coutsias, J.P. Watson, Algorithmic dimensionality reduction for molecular structure analysis. J. Chem. Phys., 129(6): 064118, p. 1 - 13, 2008.

2. S.N. Pollock, E.A. Coutsias, M.J. Wester and T.I. Oprea, J., Scaffold topologies I: exhaustive enumeration up to eight rings. J Chem. Inf. Model., 48(7), p. 1304 - 1310, 2008.

1. M.J. Wester, S.N. Pollock, E.A. Coutsias, T.K. Allu, S. Muresan and T.I. Oprea, Scaffold topologies II: analysis of chemical databases. J. Chem. Inf. Model., 48(7), p. 1311 - 1324, 2008.

Book Chapters & Refereed Conference Proceedings

2. S. Pollock, Anderson acceleration for degenerate and nondegenerate problems. In *Deterministic and Stochastic Optimal Control and Inverse Problems*, p. 197-216, B. Jadamba, A. Khan, S. Migorski and M. Sama, ed., CRC Press, 2021.

1. S. Brenner, M. Oh. S. Pollock, K. Porwal, M. Schedensack and N. Sharma, A C^0 interior penalty method for elliptic distributed optimal control problems in three dimensions with pointwise state constraints. In *Topics in Numerical Partial Differential Equations and Scientific Computing*, p 1-22, S. Brenner, ed., IMA volumes in Mathematics and Its Applications (160), 2016.

Technical Reports

1. S. Pollock and L. R. Scott, Using small eigenproblems to accelerate power method iterations, Research Report UC/CS TR-2021-10, Dept. Comp. Sci., Univ. Chicago, 2021.

Recent Seminars and Colloquia (2018-)

- Computational Mathematics Seminar, Louisiana State University, Center for Computation and Technology November, 2023.

- Computational Mathematics Seminar, University of Pittsburgh, Department of Mathematics, September, 2023.
- Institute for Computational and Experimental Research in Mathematics (ICERM), Brown University, July, 2023.
- Plenary talk, SIAM Southeastern Atlantic Section Annual Meeting, Virginia Tech, Blackburg, VA, March 25, 2023.
- University of Kansas, Computational and Applied Math Seminar, March 22, 2023 (*virtual).*
- Modeling and Computation Seminar, University of Arizona, December, 2022.
- Applied Math Seminar, University of Kentucky, October, 2022.
- Simple Words Seminar, University of Florida, September, 2022.
- ORNL Mathematics in Computation Seminar, Oak Ridge National Labs, Oak Ridge, TN, May, 2022 (*held virtually*).
- 47th Annual Spring Lecture Series, University of Arkansas, Fayetteville, AR, May, 2022.
- UMS Math Talk, University of Florida, March, 2022.
- Applied and Computational Mathematics Seminar, Portland State University, November, 2021 (*held virtually*).
- Smith Colloquium, The University of Kansas, November, 2021 (*held virtually*).
- Oberwolfach Research Institute for Mathematics, Oberwolfach, Germany, June, 2021 (*held virtually*).
- Analysis & Applied Math, University of Toronto, November, 2020 (*held virtually*).
- Computational and Applied Mathematics Colloquium, Rice University, November, 2020 (*held virtually*).
- Applied Mathematics and Computation Seminar, Oregon State University, May, 2020 (*held virtually*).
- Institute for Computational and Experimental Research in Mathematics (ICERM), Brown University, March, 2020 (*held virtually*).
- UF SIAM Gators Seminar, University of Florida, March, 2020.
- PIMS-SFU Applied & Computational Math Seminar, Simon Fraser University, Burnaby, B.C., CA, October, 2019.
- UF Seminar on Applied and Numerical Analysis, September, 2019.
- Banff International Research Station, Alberta, CA, May, 2019.
- Institution for Computational Engineering and Sciences (ICES) Seminar, The University of Texas at Austin, March 2019.
- Numerical Analysis Seminar, Texas A&M University, March 2019.
- UF SIAM Gators Seminar, University of Florida, September, 2018.

RECENT MINISYMPOSIUM AND SPECIAL SESSION PRESENTATIONS (2018-)

- 41st Southeastern-Atlantic Regional Conference of Differential Equations (SEARCDE 2023), Florida A&M University, Tallahassee, FL, November 18-19, 2023.
- 2023 AWM Research Symposium, Clark Atlanta University, Atlanta GA, September 30-October 2, 2023.
- AMS Spring Central Sectional Meeting, University of Cincinnati, April, 2023.
- SIAM Conference on Computational Science and Engineering (CSE23), Amsterdam, The Netherlands, March 2023 (*upcoming*)
- SIAM Annual Meeting, Pittsburgh, PA, June, 2022.
- SIAM Central States Section, University of Kansas, October, 2021 (*virtual*).
- SIAM Southeastern Atlantic Section, Auburn University, September, 2021 (*virtual*).
- SIAM Conference on Mathematics & Computational Issues in the Geosciences (GS21), Politecnico di Milano, Milan, IT, June, 2021 (*virtual*).
- SIAM Conference on Applied Linear Algebra (LA21), New Orleans, LA, May, 2021 (*virtual*).

- SIAM Conference on Computational Science and Engineering (CSE21), Fort Worth, TX, March 2021(*virtual*)
- SIAM Conference on Analysis of Partial Differential Equations (PD19), La Quinta, CA, December, 2019.
- AMS Fall Southeastern Sectional Meeting, University of Florida, November, 2019.
- Conference on Computational Mathematics and Applications, University of Nevada, October, 2019.
- SIAM Central States Section, Iowa State University, October, 2019.
- Mathematics of Finite Elements and its Applications, (MAFELAP 2019), The Brunel Institute of Computational Mathematics and Brunel University, London, UK, June, 2019.
- AMS Spring Central and Western Joint Sectional Meeting, University of Hawaii at Manoa, Honolulu, HI, March, 2019.
- SIAM Conference on Mathematical & Computational Issues in the Geosciences (GS19), Houston, TX, March, 2019.
- SIAM Annual Meeting, Portland, OR, June, 2018.
- SIAM Great Lakes Section, Wayne State University, April, 2018.

RECENT CONTRIBUTED PRESENTATIONS (2018-)

- Finite Element Circus, University of Florida, April 2022.
- Finite Element Circus, November 2020, (*held virtually*).
- Finite Element Circus, University of Delaware, Newark, DE, November 2018.
- Finite Element Circus, The University of Tennessee, Knoxville, March, 2018.

ORGANIZATION, CONFERENCES AND WORKSHOPS

- Institute for Computational and Experimental Research in Mathematics (ICERM), Brown University, Semester Program on Numerical PDE, February-April, 2024 (*upcoming*).
- Institute for Computational and Experimental Research in Mathematics (ICERM), Brown University, Topical Workshop on Acceleration and Extrapolation Methods, July, 2023.
- Women in Scientific Computing on Complex Physical and Biological Systems, University of Florida, October, 2022.
- Finite Element Circus, University of Florida, April, 2022.

ORGANIZATION, SPECIAL SESSIONS AND MINISYMPOSIA

- Advances in Numerical Partial Differential Equations Solvers for Nonlinear and Complex Multi-physics Systems (with Matt Dallas, UF; and Lin Mu, University of Georgia), SIAM SEAS Section Annual Meeting, Virgiania Tech, March 2023.
- Women in Numerical Analysis and Scientific Computing (with Jingwei Hu, University of Washington), AWM Research Symposium, University of Minnesota, June 2022.
- Numerical methods and deep learning for nonlinear PDEs, (with Chunmei Wang, UF), SIAM Southeastern Atlantic Section (SEAS21), Auburn University, September 2021 (*held virtually*).)
- Efficient solvers for nonlinear and multiphysical phenomena (with Thi-Thao-Phuong Hoang, Auburn University), SIAM Conference on Mathematics & Computational Issues in the Geosciences (GS21), Politecnico di Milano, Milan, IT, June, 2021 (*virtual*).
- Multiphase/multiphysics/multiphenomenon problems (with A.J. Meir, Southern Methodist University), SIAM Conference on Computational Science and Engineering (CSE21), Fort Worth, TX, March, 2021 (*virtual*).
- UF Seminar on Applied and Numerical Analysis (with Cheng Yu, 2019; with Nan Jiang, 2021), 2019-present.
- Nonlinear Solvers and Acceleration Methods (with Leo Rebholz, Clemson University), AMS Fall Southeastern Sectional Meeting, University of Florida, November, 2019.

- Recent Advances in Goal-oriented Adaptivity (with Natasha Sharma, The University of Texas at El Paso), The Mathematics of Finite Elements and Applications (MAFELAP 2019), Brunel University London, UK, June, 2019.
- Recent Advances in Numerical Methods for PDEs (with Hengguang Li, Wayne State University), AMS Spring Central and Western Joint Sectional Meeting, University of Hawaii, Manoa, March, 2019.
- Efficient Solvers for Nonlinear Flows, SIAM Conference on Mathematical & Computational Issues in the Geosciences (GS19), Houston, TX, March, 2019.
- Discretization and Multilevel Methods for Nonstandard FEM (with Yunrong Zhu, Idaho State University), 25th International Domain Decomposition Conference, Memorial University, St. John's, Newfoundland, CA, July 2018.
- Recent Trends in Discretization for Linear and Nonlinear Problems (with Yunrong Zhu, Idaho State University), SIAM Annual Meeting, Portland, OR, July, 2018.
- Applied analysis and computation for nonlinear systems (with Stefan Doboszczak, AFIT), SIAM Great Lakes Section, April, 2018.
- Recent Trends in Analysis of Numerical Methods for Partial Differential Equations (with Leo Rebholz, Clemson University), AMS Special Session, Joint Mathematics Meetings, San Diego, CA, January, 2018.
- WSU-AFIT PDE Seminar, Wright State University, Department of Mathematics & Statistics and the Air Force Institute of Technology, (with Qingbo Huang, WSU; and Stefan Doboszczak, AFIT), Spring 2018.
- PDE Seminar, Wright State University, Department of Mathematics & Statistics (with Qingbo Huang), Fall 2017.
- Efficient Numerical Methods for Nonlinear PDE (with Yunrong Zhu, Idaho State University), Mini-symposium, SIAM Conference on Computational Science and Engineering, Atlanta, GA, March, 2017.

SERVICE

- Panelist, National Science Foundation, 2018-2019,2022-2023.
- SIAM CSE-SIAG Secretary, 2023-2024.
- Associate Editor: International Journal of Numerical Analysis and Modeling, 2022-
- Associate Editor: Advances in Computational Science and Engineering, 2022-
- Member, Editorial Board: Numerical Methods in Partial Differential Equations, 2022-
- Guest Editor, Journal of Computational and Applied Mathematics, 2023
- Referee: Advances in Applied Mathematics and Mechanics, Applied Mathematics and Computation, Computers and Mathematics with Applications, Computational and Applied Mathematics, Computational Geosciences, Electronic Transactions in Numerical Analysis, International Journal of Computer Mathematics, Journal of Computational and Applied Mathematics, Journal of Computational Physics, Journal of Scientific Computing, Mathematics of Computation, Numerical Algorithms, Numerical Linear Algebra with Applications, Numerische Mathematik, Numerical Methods for Partial Differential Equations, REM- International Engineering Journal, Results in Applied Mathematics, SIAM Journal on Mathematics of Data Science, SIAM Journal on Matrix Analysis and Appications, SIAM Journal on Numerical Analysis, SIAM Journal on Optimization, SIAM Journal on Scientific Computing, Symmetry.
- College of Liberal Arts and Sciences, University of Florida: CLAS Research Advisory Committee (2022-2024).
- Department of Mathematics, University of Florida: Chair search committee (chair, 2023); Faculty mentor/co-mentor for the UF Chapter of the Association of Women in Mathematics (2019-); Faculty co-advisor for the SIAMGators, the UF Chapter of the Society for Industrial and Applied Mathematics (2019-2022); Graduate Committee (2023-) Steering Committee (2019-2021, 2022-2023); Faculty Search Committee(2019-2020, 2021-2022); Numerical Analysis PhD

Examination Committee (2018-, chair 2018-2022); Graduate Selection Committee (2018-); Computer /Computer and Technology Committee (2018-2021); VAP (Postdoc) Search Committee (2018-2019); Colloquium, Conferences, Visitors, and Travel Committee (2018-2019).
- Interdisciplinary Applied Science and Mathematics, Wright State University: Academic Policies Committee (2017-2018).
- Department of Mathematics & Statistics, Wright State University: Applied Math Committee (2016-2018).

STUDENTS AND MENTORING

Postdocs and Visiting Assistant Professors
 - Mengying Xiao, VAP, UF, 2019-2020 (co-advised with Cheng Yu)

Students, Primary Advisor
- Matthew Dallas, UF
- Rhea Shroff, UF
- Christian Austin, UF
- Michelle Baker, UF
- Simon Kato, Undergraduate Honors, UF Mathematics, 2022. Thesis: Extrapolated restarted Arnoldi for solving the PageRank problem.
- Parker Knight, Undergradate Honors, UF Mathematics, 2020. Thesis: Data-driven adaptive penalties for high-dimensional regression.
- Ali Hasan Ali, Wright State University, MS, Mathematics, 2018. Thesis: Modifying some iterative methods for solving quadratic eigenvalue problems.

Students, Graduate Committee Member
- Mahya Aghaee (UF, 2022); Hannah Anderson (UF); Christian Austin (UF); Xin Cao (Stony Brook University, 2023); Alexander Carr (UF, MAE, 2022); Alexander Davis (UF, MAE); James Diffenderfer (UF, 2020); Churni Gupta (UF, 2021); Daniel Kutor (UF); Ying Li (UF); Christie Mauretour (UF, 2021); Andrew Niklas (Wright State University, Interdisciplinary Applied Science and Mathematics, 2018); Elisha Pager (UF, MAE, 2022); Harold Polo (UF); Jia Qi (UF, Astronomy); Nirjal Shrestha (UF); Ashley Watts (UF, Masters); Zachary Windom (UF, Chemistry); Yidan Yang (Rochester Institute of Technology); Qingchao Zhang (UF, 2022).

Students, Initial graduate mentor, UF
- Chi Ding, 2021-2022; Christian Austin, 2020-2022; Matthew Dallas, 2019-2020; Rhea Shroff, 2018-2020.

SELECTED HONORS AND AWARDS

NSF Faculty Early Career Development Program (CAREER) Award, UF	2021-2026
Interdisciplinary Collaboratories Graduate Fellowship, UCSD	2010
Interdisciplinary Collaboratories Graduate Fellowship, UCSD	2009
GAAN Fellowship, UCSD	2008
NSF-VIGRE Fellowship, UW	2007
ARCS Foundation Award, UW	2007
NSF-CSEMS (Computer Science Engineering and Math Scholarship), UNM	2006
UNM Chapter of Sigma Xi, Superior Undergraduate Student Award, UNM	2006
College of Arts & Sciences/PROFOUND, Research Stipend, UNM	2006
NSF-CSEMS (Computer Science Engineering and Math Scholarship), UNM	2005
Louise Bell Scholarship, UNM	2004

TEACHING EXPERIENCE

Associate Professor, University of Florida, Gainesville

MAP 6375 (Graduate) *Numerical PDE*	Fall 2023
MAT 4930/6930 (Graduate/UG) *Computational methods for ill-posed problems*	Spring 2023
MAP 6376 (Graduate) *Finite Element Method*	Spring 2022
MAD 4401 *Introduction to Numerical Analysis*	Fall 2021/2022
MAD 6406 (Graduate) *Numerical Linear Algebra*	Fall 2021

Assistant Professor, University of Florida, Gainesville

MAP 6375 (Graduate) *Numerical PDE*	Spring 2020
MAD 6407 (Graduate) *Numerical Analysis*	Spring 2019/2020/2021
MAD 6406 (Graduate) *Numerical Linear Algebra*	Fall 2018/2019/2020
MAP 2302 *Elementary Differential Equations*	Fall 2018

Assistant Professor, Wright State University, Dayton

Math 4810/6810 (Undergraduate/Graduate) *Applied Mathematics I*	Fall 2017
Math 6150 (Graduate) *Scientific Computation*	Spring 2018/Spring 2017
Math 2350 *Differential Equations with Matrix Algebra*	Fall 2017/Spring 2017/Fall 2016
Math 2310 *Calculus II (Honors)*	Spring 2018

Visiting Assistant Professor, Texas A&M University, College Station

Math 308 *Differential Equations*	Spring 2016/Fall 2015/Spring 2015/Spring 2014
Math 491 (Undergraduate mentored research) *Algorithms and their Computations*	Fall 2015
Math 491/691 (Graduate/Undergraduate mentored research) *Algorithms and their Computations*	Summer 2015
Math 152 *Engineering Mathematics II*	Spring 2014
Math 602 (Graduate) *Methods and Applications of Partial Differential Equations*	Summer 2014
Math 147 *Calculus I for Biological Sciences*	Fall 2013

Teaching Visitor, University of California, San Diego

Math 20F *Linear Algebra*	Spring 2013
Math 20B *Calculus II*	Winter 2013
Math 10B *Calculus II*	Fall 2012

Associate Instructor, University of California, San Diego

Math 3C *Precalculus*	Winter 2011

References available upon request.

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