

John D. Carter

Curriculum Vitae
July 2024

Mathematics Department
Seattle University
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Positions

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- **14. J.D. Carter and A. Govan, "Frequency downshifting in a viscous fluid," *European Journal of Mechanics B, Fluids*, **59**:177-185, 2016.
- **13. J.D. Carter, D. Helliwell, A. Henrich, M. Principe, and J.M. Slaughter, "Improving student success in calculus at Seattle University," *PRIMUS*, **26**(2):105-124, 2016.
- **12. N. Sanford, K. Kodama, J.D. Carter, and H. Kalisch, "Stability of traveling wave solutions to the Whitham equation," *Physics Letters A*, **378**:2100-2107, 2014.
- 11. J.D. Carter, "Stability of plane-wave solutions of a dissipative generalization of the vector nonlinear Schrödinger equation," *Mathematics and Computers in Simulation*, **82**:1038-1046, 2012.

26. Sarah Mahl, "The Whitham equation as a model of waves on deep water." Fall 2020-Spring 2021.
25. Hannah Potgieter, "Modeling the evolution of higher harmonics with generalized NLS equations." Received the Janet E. Mills Award. Winter 2019-Spring 2020.
24. Christopher Ross, "Time-periodic solutions of the Whitham equation." Received the Wynne Alexander Guy Award. Spring 2018-Spring 2020.
23. Camille Zaug, "Frequency downshift in ocean waves." Received the (university-wide) President's Award, the (college-wide) John Ju Award, and the (departmental) Mirbagheri-Yandl Award. Spring 2018-Spring 2020.
22. Sal Calatola-Young, "Existence and stability of traveling-wave solutions to bidirectional Whitham equations." Received the Janet E. Mills Award. Spring 2019-Winter 2020.
21. Logan Knapp (high-school student), "Periodic solutions of the capillary Whitham equation." Summer 2018 and Summer 2019.
20. Isabelle Butterfeld, "Comparisons between frequency downshift models and experimental data." Received the (college-wide) Edmund McNulty Award. Spring 2016-Spring 2018.
19. Morgan Rozman, "Stability of solutions to the Whitham equation with surface tension." Received the Janet E. Mills Award. Fall 2015-Spring 2018.
18. Sean Bassler, "Generalizations of the viscous Dysthe system." Spring 2016-Spring 2017.
17. Ariana Mendible, "Viscosity in shallow water." Received the Wynne Alexander Guy Award. Spring 2014-Spring 2015.
16. Alex Govan, "Frequency downshift in a viscous fluid." Received the Janet E. Mills Award. Spring 2013-Spring 2015.
15. Brandi Fleming, "Deriving the KdV equation." Received the Wynne Alexander Guy Award. Winter 2013-Spring 2014.
14. Keri Kodama, "Stability of solutions to the Whitham and Fractional KdV equations." Received the Janet E. Mills Award. Winter 2012-Spring 2014.
13. Nathan Sanford, "Stability of solutions to the Whitham equation." Received the Janet E. Mills Award. Winter 2012-Summer 2013.
12. Charles Stoll, "Importance of initial phase in numerical simulations of models of waves on deep water." Spring 2010-Fall 2011.

4. Nathan Canney, "Stability of plane-waves on deep water with dissipation." Received the Janet E. Mills Award. Fall 2003-Spring 2006.
3. Mona Usmani, "Stability of Jacobi elliptic function solutions to the one-dimensional cubic nonlinear Schrödinger equation." Fall 2005-Spring 2006.
2. William Whitwell, "Stability of solutions to nonlinear partial differential equations." Summer 2004-Spring 2005.
1. Erin Hunt, "Water waves: Comparisons between mathematical predictions and physical experiments." Fall 2002-Spring 2004.

Presentations

I. Invited Presentations

38. "Whitham equations as physical and mathematical models," Mathematics and Mechanics Colloquium, National Autonomous University of Mexico, November 2023.
37. "Modelos de olas en mares profundos," Science Faculty Seminar, National Autonomous University of Mexico, October 2023.
36. "Models and lab experiments of waves over bathymetry," Science Faculty Seminar, National Autonomous University of Mexico, September 2023.
35. "Dissipative models of swell propagation across the Pacific," Mathematics and Mechanics Colloquium, National Autonomous University of Mexico, August 2023.
34. "Water waves: Mathematical Models and Laboratory Experiments," Science Faculty Seminar, National Autonomous University of Mexico, August 2023.
33. "Modeling tsunamis using mathematics," Pacific Lutheran University Mathematics Seminar, April 2022.
32. "Comparisons between Whitham systems and experiments," Waves in One World Online Seminar, April 2020.
31. "Modeling tsunamis," Undergraduate Mathematical Sciences Seminar, University of Washington, January 2020.
30. "Frequency downshift in the ocean," Mathematics Department Colloquium, Washington State University, April 2019.
29. "Sabbaticals and problem solving," Bannan Scholars' Lunch, Seattle University, November 2017.
28. "An international course on wave-energy extraction," Energy Lab Seminar, University of Bergen, February 2017.
27. "Frequency downshift in a viscous fluid," Fluid Mechanics Seminar, University of Oslo, February 2017.
26. "Frequency downshift in a viscous fluid," Nonlinear Group Seminar, University of Geneva, February 2017.
25. "Stability of plane-wave solutions to generalizations of NLS," Fluid Mechanics Seminar, University of Bergen, February 2017.
24. "Frequency downshift in a viscous fluid," Differential Equations and Numerical Analysis Seminar, Norwegian University of Science and Technology, January 2017.
23. "Using mathematics to model tsunamis," College of Engineering Seminar, St. Louis University Madrid, October 2016.
22. "Modeling tsunamis," Bannan Scholars' Lunch, Seattle University, November 2015.

21. \Nonlocal models of waves on shallow and deep water," Workshop on Nonlocal Equations, Norwegian Technical University, September 2015.
 20. \Modeling tsunamis," Undergraduate Mathematical Sciences Seminar, University of Washington, April 2015.
 19. \Modeling tsunamis," Mathematics Departmental Colloquium, San Diego State University, April 2015.
 18. \Modeling tsunamis," SIAM Student Seminar, Portland State University, April 2015.
 17. \Dispersion and dissipation in shallow water," IMA Hot Topics Workshop on the Impact of Waves Along Coastlines, University of Minnesota, October 2014.
 16. \The power of applied mathematics," Bannan Scholars' Dinner, Seattle University, May 2012.
 15. \Mathematical theory of water waves," Undergraduate Mathematical Sciences Seminar, University of Washington, January 2012.
 14. \Mathematical theory of water waves," Mathematics Seminar, University of Puget Sound, October 2010.
 13. \Higher-order symplectic numerical methods for partial differential equations," Mathematics Department Seminar, Pontificia Universidad Catolica de Chile, November 2008.
 12. \Stability of waves on deep water," Seminario del Departamento de Ingenieria Hidraulica y Ambiental, Pontificia Universidad Catolica de Chile, August 2008.
 11. \How can mathematics help us understand tsunamis, rogue waves and other wave phenomena?" Big Questions in Science Seminar, Seattle University, October 2007.
 10. \What it really takes to get tenure," Collaborative Preparing Future Faculty Network Forum, University of Colorado, March 2007.
 9. \Mathematics pedagogy," Special Joint Engineering and Mathematics Seminar, Pontificia Universidad Catolica de Chile, August 2006.
 8. \Communication and mathematics," Special Joint Engineering and Mathematics Seminar, Pontificia Universidad Catolica de Chile, August 2006.
 7. \Computation and technology," Special Joint Engineering and Mathematics Seminar, Pontificia Universidad Catolica de Chile, August 2006.
 6. \Comparisons between physical experiments and dissipative mathematical models of surface waves on deep water," Mining Center Seminar, Pontificia Universidad Catolica de Chile, August 2006.
 5. \Modeling surface waves in the ocean," Applied and Computational Mathematical Sciences Seminar, University of Washington, January 2003.
 4. \Instabilities of traveling-wave solutions of the nonlinear Schrödinger equation," Mathematics Colloquium, Instituto de Investigaciones en Matematicas Aplicadas y en Sistemas, Universidad Nacional Autonoma de Mexico, December 2004.
 3. \Mathematical models of water waves," Department of Mathematics Noon Seminar, Pennsylvania State University, March 2003.
 2. \Instability of bounded solutions of the 2-D nonlinear Schrödinger equation," Applied Mathematics Colloquium, University of Washington, September 2002.
 1. \Numerics of the 2-D nonlinear Schrödinger equation and its higher-order generalizations," Nonlinear Waves Seminar, McMasters University, October 2001.
- II. Conference and Workshop Presentations
43. \Stability of near-extreme solutions of the Whitham equation," SIAM Conference on Nonlinear Waves and Coherent Structures, June 2024.

42. \Stability of near-extreme solutions of the Whitham equation," Joint Mathematics Meetings, San Francisco, January 2024.
41. \Dissipative models of swell propagation across the Pacific," Waves in Sea Environment Meeting, Princeton University, May 2023.
40. \Modeling the Second Harmonic in Surface Waves," SIAM Pacific Northwest Section Meeting, Washington State University Vancouver, May 2022.
39. \Dissipative models of swell propagation across the Pacific," IMACS Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, March 2022.
38. \Comparisons Between Whitham Systems and Experiments," SIAM Annual Meeting, Online, July 2021.
37. \Dissipative models of swell propagation across the Pacific," 4th IMA Conference on Nonlinearity and Coherent Structures, Online, July 2021.
36. \The Whitham equation on an uneven bottom," SIAM Pacific Northwest Section Meeting, Seattle University, October 2019.
35. \Frequency downshift in the ocean," ICIAM Conference, Valencia, Spain, July 2019.
34. \Particle paths and transport properties of NLS and its generalizations," Applied Mathematics, the Next 50 Years Conference, University of Washington, June 2019.
33. \Particle paths and transport properties of NLS and its generalizations," IMACS Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, April 2019.
32. \Comparisons between Experimental Measurements and Predictions from Bidirectional Whitham Equations," SIAM Annual Meeting, Portland, Oregon, July 2018.
31. \The viscous Dysthe equation," Conference on Surface Waves in the Ocean, Bergen, Norway, November 2017.
30. \Frequency downshifting in a viscous fluid," SIAM Pacific Northwest Section Meeting, Oregon State University, October 2017.
29. \Comparisons between experimental measurements and predictions from bidirectional Whitham equations," Recent Advances in Nonlinear Waves Conference, University of Washington, August 2017.
28. \Frequency downshifting in a viscous fluid," ICERM Conference on Water

22. \Dispersion and the fractional KdV equation," SIAM Conference on Nonlinear Waves and Coherent Structures, Cambridge University, August 2014.
21. \Dispersion in shallow water," IMACS Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, March 2013.
20. \Dispersion in shallow water," Joint Mathematics Meetings, San Diego, January 2013.
19. \Dispersion in shallow water," Conference on Nonlinear Waves in Fluids, Lough-

9. "Body Image in Media and Entertainment," Academic Salon, Seattle Univer-

Grants for Students

2. Clare Boothe Luce Fellowships for students 2014, 2015, 2016.
1. SU Grant for Student Summer Research: 2005, 2006, 2007 (2), 2008, 2009, 2010, 2016, 2019 (2), 2021, 2023 (2), 2024 (2).

Service and Activities

I. Professional Service

71. Co-organizer of a session entitled "Approximate models of fluid motion," Joint Mathematics Meetings, Seattle, January 2025.
70. Served as an external reviewer for doctoral thesis, August 2024.
69. Served as an external reviewer for an assistant professor's application for tenure and promotion, August 2024.
68. Organizer of a session entitled "Nonlinear Water Waves," SIAM Conference on Nonlinear Waves, Baltimore, June 2024.
67. Organizer of a session entitled "Water Waves," Joint Mathematics Meetings, San Francisco, January 2024.
66. Served as the international reviewer for a candidate applying for promotion to Associate Professor at the Indian Institute of Technology Tirupati, October 2023.
65. Guest editor for *Applied Numerical Mathematics*, June 2022-February 2023.
64. Served on the Temporary Pacific Math Alliance Executive Board Election Committee, Spring 2022.
63. Organizer for a session entitled "Nonlinear Waves," SIAM Pacific NW Conference, Washington State University, May 2022.
62. Co-organizer for a session entitled "Water Waves," IMACS Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, March 2022.
61. Member of the Scientific Program Committee, IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, March 2022.
60. Serving on the editorial board for *Studies in Applied Mathematics*, Winter 2022-present.
59. Served as the External Reviewer for the Mathematics Department at Montana Western, Winter-Spring 2021.
58. Reviewed an NSF EPSCoR Research proposal, Spring 2021.
57. Serving as Associate Editor for an issue of *Studies in Applied Mathematics*, Winter 2021-Fall 2021.
56. Served on the Fulbright Mathematics Peer Review Committee, Fall 2020.
55. Organized a session entitled "Recent developments in nonlinear waves," SIAM Conference on Nonlinear Waves and Coherent Structures, Bremen, Germany, July 2020. (Cancelled due to COVID.)
54. Reviewed a NSERC-Mathematical and Statistical Sciences Discovery Grant proposal, Fall 2019.
53. Served on the Egyptian Post-Doctoral Fulbright Mathematics Peer Review Committee, Fall 2019.

50. Served on the Fulbright Mathematics Peer Review Committee, Fall 2019.
49. Member of the SIAM Pacific Northwest Section Conference Organizing Committee, Spring-Fall 2019.
48. Member of the APS Division of Fluid Dynamics Annual Conference Organizing Committee, Spring-Fall 2019.
47. Reviewed a grant proposal for the National Science Foundation Division of Ocean Sciences, April 2019.
46. Organized a session entitled "Recent Developments in Mathematical Studies of Water Waves," IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, April 2019.
45. Member of the Scientific Program Committee, IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, April 2019.
44. Grader for The Mathematics Contest in Modeling Problem C, 2019.
43. Served on the Fulbright Iceland/Norway Regional Review Committee, Fall 2018.
42. Organizer of a session entitled, "Water waves: Comparisons between experiments and predictions" SIAM Conference on Nonlinear Waves and Coherent Structures, June 2018.
41. Served as the external review member for an application for promotion to Associate Professor at the Higher Colleges of Technology, UAE, May 2018.
40. Reviewed a grant proposal for the National Science Foundation Division of Ocean Sciences, April 2018.
39. Grader for The Mathematics Contest in Modeling Problem C, 2018.
38. Co-organizer for the Conference on Surface Waves in the Ocean, University of Bergen, November 2017.
37. Scientific Program Committee Member for the Conference on Surface Waves in the Ocean, University of Bergen, November 2017.
36. Poster Judge, SIAM Pacific Northwest Section Meeting, Oregon State University, October 2017.
35. Co-organizer for the Recent Advances in Nonlinear Waves Conference, University of Washington, August 2017.
34. Co-organizer for a session entitled "Nonlocal and full-dispersion model equations in incompressible fluid mechanics," IMACS Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, March 2017.
33. Member of the Scientific Program Committee, IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, March 2017.
32. Served as an opponent for a doctoral thesis defense in the Mathematics Department at the Norwegian University of Science and Technology, January 2017.
31. Co-organized a session entitled "Periodic Traveling Waves: Existence, Computation, and Stability," SIAM Conference on Nonlinear Waves and Coherent Structures, August 2016.
30. Grader for The Mathematics Contest in Modeling Problem C, 2016.
29. Founding member of the SIAM Pacific Northwest Section, Fall 2015.
28. Co-organizer of the joint Seattle University/University of Washington Nonlinear Waves Seminar, Fall 2003-2015.
27. Associate Editor of SIAM Undergraduate Research Online, January 2016-present.
26. Co-organized a session entitled "Water Waves," Joint Mathematics Meetings, January 2016.

25. Organized a session entitled "Recent Developments in Mathematical Studies of Water Waves," IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, April 2015.
24. Member of the Scientific Program Committee, IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, April 2015.
23. Co-organized a session entitled "Water Waves," IMACS Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, March 2013.
22. Member of the Scientific Program Committee, IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, March 2013.
21. Member of Organizing Committee for SIAM Workshop on Nonlinear Waves and Coherent Structures, June 2012.
20. Member of Scientific Committee, WAVES 2011, Vancouver, July 2011.
19. Member of the Scientific Program Committee, IMACS Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, April 2011.
18. Co-organized a session entitled "Recent Developments in Mathematical Studies of Water Waves," IMACS Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, April 2011.
17. Co-organized a minisymposium entitled "Mathematical Models of Water Waves," SIAM Conference on Nonlinear Waves and Coherent Structures, Philadelphia, August 2010.
16. Co-founder/organizer of the joint SU/UW Nonlinear Waves Research Group, Fall 2003-Spring 2010.
15. Served on a Project NExT panel on undergraduate research, Pacific Northwest Section Meeting of the MAA, Seattle University, April 2010.
14. Guest editor for an issue of *Mathematics and Computers in Simulation*, 2010.
13. Organized a session entitled "Mathematical Models of Water Waves," IMACS Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, March 2009.
12. Member of the Scientific Program Committee, IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, March 2009.
11. Organized a session entitled "Patterns in Water Waves," SIAM Conference on Nonlinear Waves and Coherent Structures, Università di Roma La Sapienza, July 2008.
10. Organized a session entitled "Stability of surface water waves," IMACS conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, April 2007.
9. Reviewed the engineering mathematics curriculum at the Pontificia Universidad Católica de Chile, August 2006.
8. SIAM Visiting Lecturer, Summer 2006-present.
7. Organized a session entitled "Stability of solutions to nonlinear partial differential equations," SIAM Conference on Nonlinear Waves and Coherent Structures, University of Washington, September 2006.
6. Organized a session entitled "Recent developments in water waves," IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, April 2005.
5. Member of Organizing Committee, Workshop on Free Surface Water Waves, Field's Institute, June 2004.

4. Founding member of SIAM Activity Group on Nonlinear Waves and Coherent Structures, 2004.
3. Hosted Focused Research Group meeting, Seattle University, March 2004.
2. Co-organizer of a session entitled "Nonlinear three-dimensional surface water waves," IMACS Conference on Nonlinear Evolution Equations and Wave Phenomena, University of Georgia, April 2003.
1. Referee for many mathematics, oceanography and engineering journals.

II. University Service

20. Serving mee-1(a)28(b)-287(e-1(ar-294(mf)-3940Ihem-3940IEducaion)-3940IAbroad-294(m)83(oacul))-500(Servi28(erd-3945Ilg-2946II-2945Iem)28(b)-28(er)-3945If)-3945Ihem-3946IF83(oacul)28(y)-3946IAdv1(ois-1(ar)-1y)-3946ICun

Multidisciplinary Research Program, Spring 2024.

37. Chaired the Bannan Scholars Selection Committee, Winter 2024.

mittee, Fall 2004-present.

4. Lead Learning Center discussions on tutoring mathematics, April 2009.
3. Lead Learning Center discussions on tutoring mathematics, April 2008.
2. Directed two classes for the Odyssey Program for Talented Youth, May 2008.
1. Lead a workshop for mathematics and physics faculty entitled "Using *Mathematica 6* in the classroom," April 2008.

IV. Select Departmental Service

65. Advised one team of SU students that competed in the COMAP Mathematical Contest in Modeling, Winter 2024.
64. Chaired the Topics Class Selection Committee, Winter 2024.
63. Served on a three-year review committee for a colleague in the Mathematics Department, Winter 2024.
62. Chaired the Calculus Generic Syllabus Revision committee, Spring 2023.
61. Advised three teams of SU students that competed in the COMAP Mathematical Contest in Modeling, Winter 2023.
60. Chaired the Calculus Textbook Replacement committee, Winter 2023.
59. Directed a math major's senior synthesis project, Winter 2023-Spring 2023.
58. Chaired a promotion to full professor review committee for a colleague in the Mathematics Department, Fall 2022.
57. Served on a promotion to full professor review committee for a colleague in the Mathematics Department, Fall 2022.
56. Conducted a peer-evaluation for a colleague in the Mathematics Department, Spring 2022.
55. Advised a team of SU students that competed in the COMAP Mathematical Contest in Modeling, Winter 2022.
54. Chaired a promotion to full professor review committee for a colleague in the Mathematics Department, Fall 2021.
53. Served on a promotion to full professor review committee for a colleague in the Mathematics Department, Fall 2021.
52. Chaired the 2021.

- 2018.
38. Organized a reading group on programming in Python, Spring 2018.
 37. Organized and led a reading group including students and faculty on the python programming language, Spring 2018.
 36. Chaired the departmental review of a colleague's promotion and tenure file, Winter 2018.
 35. Served on the departmental assessment committee on algorithmic reasoning, Winter 2018.
 34. Chaired the departmental technology complete review committee, Fall 2017-Winter 2018.
 33. Chaired a tenure and promotion review committee for a colleague in the Mathematics Department, Fall 2017.
 32. Served on a third-year review committee for a colleague in the Mathematics Department, Winter 2015.
 31. Conducted a peer review of a colleague in the Mathematics Department, Winter 2015.
 30. Represented the Mathematics Department at a New Student Open House, April 2015.
 29. Co-organized a reading group on asymptotics, Fall 2014-Spring 2015.
 28. Served on a tenure review committee for a colleague in the Mathematics Department, Fall 2014.
 27. Conducted a peer review of a colleague in the Mathematics Department, Spring 2014.
 26. Co-organized a reading group on calculus of variations, Winter-Spring 2014.
 25. Conducted a peer review of a colleague in the Mathematics Department, Winter 2013.
 24. Chaired MATH 120 Textbook Selection Committee, Fall 2012.
 23. Chaired committee to develop rubric for algorithm and computation learning outcome, Fall 2012.
 22. Chaired Committee to Revise MATH 135 generic syllabus, Fall 2012.
 21. Chaired Committee to Revise MATH 134 generic syllabus, Spring 2012.
 20. Organizer of Orals Seminar, Fall 2012-present.
 19. Chair of the Differential Equations Position Hiring Committee, Fall 2011-Winter 2012.
 18. Academic advisor for math majors in the class of 2014, Fall 2010-present.
 17. Conducted a peer review of a colleague in the Mathematics Department, Winter 2011.
 16. Member of the Calculus Textbook Selection Committee, 2011.
 15. Chair of the Mathematics Department Committee for the Four-Year Review of Faculty, 2011.
 14. Member of the Mathematics Department Committee for the Four-Year Review of Faculty, 2010.
 13. Member of the MATH 233/234 Reorganization Committee, 2009-2010.
 12. Member of the High-Performance Computer Purchase Committee, 2009-2010.
 11. Member of the Mathematics Department Committee for the Tenure and Promotion Review of Faculty, 2009.
 10. Proctored and graded math placement exams, 2005, 2006, 2007, 2009.
 9. Conducted a peer review of a colleague in the Mathematics Department, Winter 2008.
 8. Member of the Mathematics Department Committee for the Four-Year Review of Faculty, 2008.

7. Member of the Technology in the Calculus Sequence Committee, 2007-2008.
6. Member of the Departmental Process Review Committee, 2007.
5. Chair of MATH 118 Curriculum Review Committee, Spring 2007.
4. Chair of MATH 120 textbook review/selection committee, Spring 2004.
3. Member of the Engagement With Our NW Location Committee, Fall 2003.
2. Chair of the MATH 120/121/131 Assessment Subcommittee, Fall 2002.
1. Member of the MATH 120 Textbook Committee, 2002.

Select Awards and Fellowships

8. Fulbright Scholar Award for Mexico Alternate, August-December 2023.
7. Seattle University College of Science and Engineering Undergraduate/Faculty Summer Research Award, 2023.
6. Arline F. Bannan Endowed Chair, September 2020-August 2022.
5. Core Fulbright Research Scholar for Norway, January-June 2017.
4. College of Science and Engineering Outstanding Teacher Award, 2015.
3. College of Science and Engineering Faculty Innovation Award, 2012.
2. Seattle University Summer Faculty Fellowship, 2006, 2010, 2016, 2022.
1. Nominated for the College of Arts and Sciences Outstanding Professor Award, 2002, 2003.