DEJAN SLEPČEV

Department of Mathematical Sciences
Carnegie Mellon University
7123 Wean Hall
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EDUCATION

Ph.D. Mathematics 2002
University of Texas at Austin
Advisor: P. E. Souganidis

M.A. Mathematics 2000
University of Wisconsin at Madison

B.Sc. Mathematics 1995
University of Novi Sad

EMPLOYMENT

Carnegie Mellon University
Associate Professor 2011 - present
Assistant Professor 2006 - 2011

University of California at Los Angeles 2004 - 2006
Assistant Adjunct Professor and Assistant Researcher

University of Toronto 2002 - 2004
Postdoctoral Fellow

EDITORIAL ACTIVITIES

Member of Editorial Board of the Journal of Nonlinear Science 2016-present

PUBLICATIONS

1. M. Thorpe, S. Park, S. Kolohuri, G. Rohde, D. Slepčev, *A transportation L^p distance for signal analysis*, preprint, arXiv:1609.08669.
2. S. Kolohuri, S. Park, M. Thorpe, D. Slepčev, G. Rohde, *Transport-based analysis, modeling, and learning from signal and data distributions*, preprint, arXiv: 1609.04767.
3. J-G. Liu, R.L. Pego, D. Slepčev, *Least action principles for incompressible flows and optimal transport between shapes*, preprint, arXiv:1604.03387.
4. N. García Trillos, D. Slepčev, J. von Brecht, *Estimating perimeter using graph cuts*, preprint, arXiv:1602.04102.

5. S. Kirov, D. Slepčev, *Multiple penalized principal curves: analysis and computation*, preprint, arXiv:1512.05010.
6. N. García Trillos, D. Slepčev, *A variational approach to the consistency of spectral clustering*, published online, Appl. Comput. Harmon. Anal.
7. N. García Trillos, D. Slepčev, J. von Brecht, T. Laurent, and X. Bresson, *Consistency of Cheeger and ratio graph cuts*, J. Mach. Learn. Res. 17, no. 181, (2016), pp. 1-46.
8. X.Y. Lu and D. Slepčev, *Average distance problem for parameterized curves*, ESAIM Control Optim. Calc. Var. 22, no. 2 (2016), pp. 404-416.
9. N. García Trillos and D. Slepčev, *Continuum limit of total variation on point clouds*, Arch. Ration. Mech. Anal., 220 no. 1, (2016) 193-241.
10. N. García Trillos and D. Slepčev, *On the rate of convergence of empirical measures in ∞-transportation distance*, Canad. J. Math, 67, (2015), pp. 1358-1383.
11. R. Simione, D. Slepčev, I. Topaloglu, *Existence of ground states of nonlocal interaction energies*, J. Stat. Phys. 159, No. 4 (2015), pp. 972-986.
12. J.A. Carrliio, D. Slepčev, L. Wu, *Nonlocal-interaction equations on uniformly prox-regular sets*, Discrete Contin. Dyn. Syst. Vol. 36, no. 3, (2016), pp. 1209 - 1247.
13. L. Wu and D. Slepčev, *Nonlocal interaction equations in environments with heterogeneities and boundaries*, Commun. Partial Differential Equation, vol. 40, no. 7, (2015), pp. 1241-1281.
14. M. Elsey and D. Slepčev, *Mean-curvature flow of Voronoi diagrams*, J. Nonlin. Science, 25 No. 1 (2015), pp 59-85.
15. X.Y. Lu and D. Slepčev, *Properties of minimizers of average-distance problem via discrete approximation of measures*, SIAM J. Math. Anal., 45, No. 5, (2013) pp. 3114-3131.
16. D. Slepčev, *Counterexample to regularity in average-distance problem*, Ann. Inst. H. Poincare Anal. Non Lineaire, 31, (2014), pp. 169-184.
17. W. Wang, D. Slepčev, S. Basu, J. Ozolek, and G.K. Rohde, *A linear optimal transportation framework for quantifying and visualizing variations in sets of images*, International Journal of Computer Vision, 101, No. 2, (2013), pp. 254-269.
18. F. Otto, C. Seis, and D. Slepčev, *Crossover of the coarsening rates in demixing of binary viscous liquids*, Commun. Math. Sci.,11, No. 2, (2013), pp. 441-464 .
19. J.A. Carrillo, M. Di Francesco, A. Figalli, T. Laurent, and D. Slepčev, *Confinement in nonlocal interaction equations*, Nonlinear Anal. 75 (2012), pp. 550-558.
20. J.A. Carrillo, M. Di Francesco, A. Figalli, T. Laurent, and D. Slepčev, *Global-in-time weak measure solutions, and finite-time aggregation for nonlocal interaction equations*, Duke Math J. 156 No 2, (2011) pp. 229–271.
21. W. Wang, J. Ozolek, D. Slepčev, A. Lee, C. Chen, G.K. Rohde *An optimal transportation approach for nuclear structure-based pathology*, IEEE Trans. Med. Imaging, 99 (2010).

22. A. Bertozzi and D. Slepčev, *Existence and uniqueness of solutions to an aggregation equation with degenerate diffusion*, Commun. Pure Appl. Anal. 9 No. 6 (2010) pp. 1617-1637.
23. J.A. Carrillo, S. Lisini, G. Savaré, and D. Slepčev, *Nonlinear mobility continuity equations and generalized displacement convexity*, J. Funct. Anal. 258, No. 4, (2010) pp. 1273-1309.
24. D. Slepčev, *Linear stability of selfsimilar solutions of unstable thin-film equations*, Interfaces Free Bound. 11, No. 3, (2009) pp. 375-398.
25. J.A. Carrillo and D. Slepčev, *Example of a displacement convex functional of first order*, Calc. Var. Partial Differential Equations, 36, No. 4 (2009) pp. 547-564.
26. K. Glasner, F. Otto, T. Rump, and D. Slepčev, *Ostwald ripening of droplets: the role of migration* European J. Appl. Math. 20, No. 1, (2009) pp. 1-67.
27. D. Slepčev, *Coarsening in nonlocal interfacial systems* SIAM J. Math. Anal. 40, No. 3, (2008) pp. 1029-1048.
28. S. Esedoglu and D. Slepčev, *Refined upper bounds on the coarsening rate of discrete, ill-posed diffusion equations*, Nonlinearity 21 (2008) pp. 2759-2776.
29. F. Otto, T. Rump, and D. Slepčev, *Coarsening rates for a droplet model: rigorous upper bounds*, SIAM J. Math. Anal. 38 (2006) no. 2, pp. 503-529.
30. R.J. McCann and D. Slepčev, *Second-order asymptotics for the fast-diffusion equation* Int. Math. Res. Not. (2006) article ID 24947, pp. 1-22.
31. D. Slepčev and M.C. Pugh, *Selfsimilar blowup of unstable thin-film equations*, Indiana Univ. Math. J. 54 (2005) no. 6, pp. 1697-1738.
32. F. da Lio, C.I. Kim, and D. Slepčev, *Nonlocal front propagation problems in bounded domains with Neumann-type boundary conditions and applications*, Asymptot. Anal. 37 (2004) no. 3-4, pp. 257-292.
33. D. Slepčev, *On level-set approach to motion of manifolds of arbitrary codimension*, Interfaces Free Bound. 5 (2003) no. 4, pp. 417-458.
34. D. Slepčev, *Approximation schemes for propagation of fronts with nonlocal velocities and Neumann boundary conditions*, Nonlinear Anal. 52 (2003) no. 1, pp. 79-115.

CONFERENCE PUBLICATIONS

1. S. Kolohuri, D. Slepčev, G. Rohde, *A Symmetric Deformation-Based Similarity Measure for Shape Analysis*, IEEE 12th International Symposium on Biomedical Imaging (ISBI) 2015.
2. G. K. Rohde, W. Wang, D. Slepčev, A. B. Lee, C. Chen, and J. A. Ozolek, *Detecting and classifying cancers from image data using optimal transportation*, 26th Southern Biomedical Engineering Conference, University of Maryland, 2010.

3. W. Wang, C. Chen, T. Peng, D. Slepčev, J. A. Ozolek, G. K. Rohde, *A graph-based method for detecting characteristic phenotypes from biomedical images.* Proceedings of the IEEE International Symposium on Biomedical Imaging (ISBI) 2010, pp. 129-132.

PATENTS

1. W. Wang, D. Slepčev, G. K. Rohde, *Quantitative Comparison of Image Data Using a Linear Optimal Transportation*, patent applied for, publication date: 4/4/2013, patent number: WO 2013049159.

FUNDING

- Co-PI of NSF grant 1601475 *Topics in Applied Nonlinear Analysis: Recent Advances and New Trends*, $31,600.
- PI of NSF grant DMS-1516677 *Variational problems on random structures: analysis and applications to data science*, 2015-2018, $181,107.
- Co-PI of NSF grant CCF-1421502 *Transport and other Lagrangian transforms for signal analysis and discrimination*, 2014-2017, $499,999.
- PI of NSF grant DMS-1211760 *Nonlocal energies and their application to data analysis and collective behavior of many-particle systems* 2012-2015, $132,838.
- Collaborator on NIH grant P41 GM103712-01 *High performance computing for multi-scale modeling of biological systems*, $1,500,000 (per year), 2012-2017.
- Co-PI of ICTI/FCT grant UTA_CMU/MAT/0007/2009 *Degenerate elliptic and parabolic equations and their applications to front propagation* 2011-2014, $200,000.
- PI of NSF grant DMS-0908415 *Energy-driven systems: Geometry of energy landscapes and applications* 2009-2012, $112,290.
- Collaborator on NIH grant 5R21 GM088816-02 *Deformation-based computational morphometry for cell biology applications*, 2009-2011, $225,000.
- PI of NSF grant DMS-0638481 *Dynamics of Unstable Thin Liquid Films and Coarsening*, 2006-2009, $92,746.

INVITED TALKS

- Computing + Mathematical Sciences Colloquium, Caltech, February 2017
- Workshop, *Applications of Optimal Transportation in the Natural Sciences*, Mathematisches Forshungsinstitut Oberwolfach, Germany, January 2017
- AMS Sectional Meeting, NC State, November 2016
- Applied Mathematics Seminar, Duke University, November 2016
- Data Analysis Seminar, Johns Hopkins University, November 2016
- Colloquium, University of Arizona, October 2016
- Applied Mathematics Seminar, Courant Institute, September 2016

- Workshop *Computational Optimal Transportation*, Montreal, Canada, July 2016
- Conference *Calculus of Variations, Optimal Transportation, and Geometric Measure Theory: From Theory to Applications*, Lyon, France, July 2016
- Workshop *Entropy Methods, Dissipative Systems, and Applications*, Vienna, Austria, June 2016
- Lecture Series, *Variational problems on random structures: analysis and applications to data science*, Imperial College, London, May/June 2016
- Workshop, *Young Applied Analysts in the UK*, Bath, UK, May 2016
- PDE Seminar, Georgia Tech, April 2016
- CAMP Seminar, University of Chicago, February 2016.
- Workshop *Data Rich Phenomena - Modelling, Analysing and Simulation using Partial Differential Equations*, Cambridge, December 2015
- SIAM Conference on Analysis of Partial Differential Equations, December 2015
- Workshop, *Collective Dynamics in Biological and Social Systems*, Duke, November 2015
- Colloquium, University of Utah, October 2015
- Dagstuhl Seminar, *Mathematical and Computational Foundations of Learning Theory*, Germany, September 2015
- International Congress on Industrial and Applied Mathematics, Beijing, August 2015
- Conference, *Calculus of Variations and Nonlinear Partial Differential Equations*, Austin, May 2015
- Workshop, *Recent Developments in Continuum Mechanics and PDE*, Lincoln, April 2015
- Topology, Geometry and Data Seminar, Ohio State University, April 2015
- SIAM Conference on Computational Science and Engineering, March 2015
- Workshop, *Gradient Flows and Entropy Methods*, Hausdorff Institute, Bonn, February 2015
- Mini-Workshop, *Discrete p-Laplacians: Spectral Theory and Variational Methods in Mathematics and Computer Science*, Mathematisches Forshungsinstitut Oberwolfach, February 2015
- Workshop, *Variational Methods for Evolution*, Mathematisches Forshungsinstitut Oberwolfach, December, 2014
- Conference, *Entropy and Singular Solutions for Conservation Laws*, West Virginia University, September 2014
- Workshop, *Kinetics, non standard diffusions and stochastics: emerging challenges in the sciences*, Austin, May 2014
- Mini course at workshop *Mathematical biology, particle systems and reaction-diffusion thematic school*, Toulouse, France, March 2014

- LCDS Seminar, Brown University, February 2014
- SIAM Conference on Analysis of Partial Differential Equations, December 2013
- Analysis Seminar, University of Wisconsin, Madison, November 2013
- CSCAMM Seminar, University of Maryland, October 2013
- SIAM Conference on Mathematical Aspects of Materials Science, Philadelphia, June 2013
- *5th Symposium on Analysis and PDEs*, Purdue University, May 2012
- Colloquium, University of Utah, April 2012
- Colloquium, University of West Virginia, February 2012
- SIAM Conference on Analysis of Partial Differential Equations, San Diego, November 2011
- XI Praire Analysis Seminar, Kansas State University, October 2011
- Society of Engineering Sciences Technical Meeting, Chicago, October 2011
- Workshop on Pattern Formation and Multiscale Phenomena in Materials, Oxford University (United Kingdom), September 2011
- CASA Colloquium, TU Eindhoven (Netherlands), June 2011
- Analysis and Applied Mathematics Seminar, University of Toronto, November 2010
- Analysis and Applied Mathematics Seminar, University of Michigan, November 2010
- AMS Sectional Meeting, Los Angeles, October 2010
- Applied Analysis Seminar, University of Pittsburgh, September 2010
- Workshop *Phase Transitions*, Mathematisches Forshungsinstitut Oberwolfach, May/June, 2010
- Workshop *Monge-Kantorovich Optimal Transport Theory and Applications*, Santa Fe, October 2009
- Workshop *On Kinetics and Statistical Methods for Complex Particle Systems*, Lisbon (Portugal), July 2009
- CASA Colloquium, TU Eindhoven (Netherlands), June 2009
- Seminar, University of Bonn (Germany), June 2009
- Analysis Seminar, University of Novi Sad (Serbia), June 2009
- Applied Mathematics and Analysis Seminar, Duke University, November 2008
- Conference *Optimal Transportation and Applications*, Pisa (Italy), November 2008
- CAMP / Nonlinear PDEs Seminar, University of Chicago, October 2008
- Workshop: *Geometrical Singularities and Singular Geometries*, Institute for Mathematics and its Applications, Minneapolis, July 2008
- SIAM Conference on Mathematical Aspects of Materials Science, Philadelphia, May 2008
- Workshop: *Aspects of Optimal Transport in Geometry and Calculus of Variations*, Institute for Pure and Applied Mathematics, Los Angeles, March 2008

- Differential Equations Seminar, Georgia Institute of Technology, March 2008
- Workshop: *New Trends in Calculus of Variations and Mass Transport*, Center for Nonlinear Analysis, Carnegie Mellon University, March 2008
- SIAM Conference on Analysis of Partial Differential Equations, Mesa, December 2007
- Workshop: *Optimal Transportation and Application to Geophysics and Geometry*, International Centre for Mathematical Sciences, Edinburgh (UK), July 2007
- *III Symposium on Analysis and PDEs*, Purdue University, May 2007
- Differential Equations Seminar, University of Michigan, April 2007
- Conference: *Limit Problems in Analysis*, Lorentz Center, Leiden (Netherlands), May 2006
- Workshop: *Nonlinear Diffusions: Entropies, Asymptotic Behaviour, and Applications* Banff International Research Station (Canada), April 2006
- Colloquium, Carnegie Mellon University, February 2006
- NSF Workshop: *Thin Films and Fluid Interfaces*, Institute for Pure and Applied Mathematics, Los Angeles, January 2006
- Colloquium, North Carolina State University, January 2006
- PDE Seminar, University of Minnesota, September 2005
- Equadiff 11, Bratislava (Slovakia), July 2005
- SIAM Annual Meeting, New Orleans, July 2005
- SFB Seminar, University of Bonn (Germany), June 2005
- SIAM Conference on Applications of Dynamical Systems, Snowbird, May 2005
- PDE Seminar, Brown University, April 2005
- AMS Sectional Meeting, Bowling Green, March 2005
- SIAM Conference on Analysis of Partial Differential Equations, Houston, December 2004
- AMS Sectional Meeting, Nashville, October 2004
- Seminar, University of Bonn (Germany), June 2004
- PDE Seminar, MIT, April 2004
- Young Mathematicians Conference, University of Toronto, January 2004
- Workshop: *Nonlinear Dynamics of Thin Films and Fluid Interfaces*, Banff International Research Station, November 2003
- Applied Mathematics Seminar, University of Toronto, March 2002
- Workshop: *Viscosity Methods in Partial Differential Equations*, Pacific Institute for Mathematical Sciences, Vancouver, July 2001

INVITED VISITS

- Mathematisches Forshungsinstitut Oberwolfach, January 30- February 2, 2017
- Imperial College London, May 15-June 3, 2016

- Dagstuhl, August, August 30-September 4, 2015
- Mathematisches Forshungsinstitut Oberwolfach, February 8-14, 2015
- Mathematisches Forshungsinstitut Oberwolfach, December 14-20, 2014
- PCMI Mathematics and Materials Summer Program, July 3-14, 2014
- ICERM, February 9-21, 2014
- Mathematisches Forshungsinstitut Oberwolfach, December 4-10, 2011
- Max Planck Institut Leipzig, June 17-23, 2010
- Mathematisches Forshungsinstitut Oberwolfach, May 30-June 5, 2010
- Autonomous University of Barcelona, June 20-26, 2009
- TU Eindhoven, June 14-20, 2009
- University of Bonn, June 3-14, 2009
- Mathematisches Forshungsinstitut Oberwolfach, July 6-12, 2008
- University of Bonn, July 3-15, 2007
- University of Bonn, July 2-9, 2006
- Banff International Research Station, April, 15-20, 2006
- University of Bonn, June 14-25, 2005
- University of Bonn, June 11-21, 2004
- Banff International Research Station, November 29-December 4, 2003

PROFESSIONAL ACTIVITIES

- Core faculty of the Ki-Net NSF Research Network, April 2014-present
- Member of Statistics and Machine Learning working Group, 2013-present
- Member of National Center for Multiscale Modeling of Biological Systems (MMBioS), 2013-present
- Co-organizer Workshop, *Variational Methods for Evolution*, Mathematisches Forshungsinstitut Oberwolfach, Germany, November 2017
- Co-organizer CNA/Ki-Net Workshop, *Dynamics and geometry from high dimensional data*, CMU, March 2017
- Vice Chair of the SIAM Activity Group on Analysis of Partial Differential Equations, January 2015 –December 2016.
- NSF Panel Member, 2016
- Co-organizer: CNA conference *Topics in Applied Nonlinear Analysis: Recent Advances and New Trends*, July 2016
- Reviewer for European Research Council Consolidator Grant call, 2015
- Reviewer for Leverhulme Trust Grant Application, 2015
- Co-organizer: Ki-Net / CNA Workshop *Groups and interactions in data, networks and biology*, Pittsburgh, May 2015

- Co-organizer: Workshop *Entropy Methods, PDEs, Functional Inequalities, and Applications* at BIRS, Banff (Canada), June 2014
- NSF Panel Member, 2013
- Co-organizer: Institute for Pure and Applied Mathematics Workshop *Nonlocal PDEs, Variational Problems and their Applications* Los Angeles, February/March 2012.
- Co-organizer: Center for Nonlinear Analysis Summer School *New Vistas in Image Processing and PDEs*, Pittsburgh, June 2010
- Co-organizer: Minisymposium *Scaling and Self-similarity in Models of Materials Science* at SIAM Conference on Mathematical Aspects of Materials Science, Philadelphia, May 2010
- Co-organizer: Workshop *Nonlinear Diffusions and Entropy Dissipation: From Geometry to Biology* at BIRS, Banff (Canada), May 2010
- Co-organizer: Minisymposium *Variational Methods and Nonlinear PDE in Image Processing*, at SIAM Conference on Analysis of Partial Differential Equations, Miami, December 2009
- Co-organizer: Center for Nonlinear Analysis Workshop *Energy Driven Systems*, August 2009
- Co-organizer: Center for Nonlinear Analysis Summer School *Contemporary Topics in Nonlinear PDEs*, Pittsburgh, May/June 2008
- Co-organizer: Minisymposium *Variational Models for Advanced Materials* at SIAM Conference on Mathematical Aspects of Materials Science, Philadelphia, May 2008
- Co-organizer: Minisymposium *Energy Based Approaches to Nonlinear PDE's* at SIAM Conference on Analysis of Partial Differential Equations, Mesa, December 2007
- Co-organizer: *NSF Workshop on Thin Films and Fluid Interfaces*, Institute for Pure and Applied Mathematics, Los Angeles, January 2006
- Refereed for: Analysis of PDE, Appl. Comput. Harmon. Anal., Arch. Ration. Mech. Anal., Calc. Var. Partial Differential Equations, Comm. Math. Phys., Comm. Math. Sci., Comm. Pure Applied Math., Comm. Pure Applied Anal., Comm. Partial Differential Equations, Discrete Contin. Dyn. Syst., Euro. J. Appl. Mat., ESAIM Control Optim. Calc. Var., Interfaces Free Bound., J. Differential Equations, J. Engrg. Math., J. Eur. Math. Soc., J. Math. Imaging Vision, J. Nonlinear Sci., Nonlinear Anal., Nonlinearity, Physica D, Proc. Amer. Math. Soc., Proc. Natl. Acad. Sci. USA, SIAM J. Appl. Dyn. Syst., SIAM J. Applied. Math., SIAM J. Imaging Sci. and SIAM J. Math. Anal.
- Reviewed for: Mathematical Reviews

CONTRIBUTIONS TO EDUCATION

POSTDOCS MENTORED

- Matthew Thorpe (2015-present)
- Xin Yang Lu (2012-2013, 2014-2015, Postdoc, McGill University)

- Gurgen Hayrapetyan (2011-2012, Assistant Professor, Ohio University)
- Ellen Peterson (2010-2012, Assistant Professor, Centre College)

GRADUATE STUDENTS MENTORED

- Slav Kirov (present)
- (with Bob Pego) Jeff Eisenbeis (present)
- Nicolás García Trillos (PhD 2015, Prager Assistant Professor, Brown University)
- (with David Kinderlehrer) Lijiang Wu (PhD 2015, Goldman Sachs)
- (with Diogo Gomes) Robert Simione (PhD 2014, Lead Data Scientist at Canvs TV)

UNDERGRADUATE STUDENTS MENTORED

- Jackson Bahr (2016-present)
- Nicholas Takaki (2014-2015)

COURSES TAUGHT

- General Topology (graduate) 2010, 2011, 2012, 2014, 2015, 2016
- Differential Geometry (graduate) 2012, 2013, 2016
- Partial Differential Equations II (graduate) 2007, 2008, 2009, 2011
- Partial Differential Equations I (graduate) 2006, 2007, 2008, 2010
- Advanced Topics in Analysis (graduate) 2008, 2014, 2016
- Applied Partial Differential Equations (graduate) 2006
- Applied Ordinary Differential Equations (graduate) 2005
- Undergraduate Research Topics 2013, 2015
- Introduction to Ordinary Differential Equations 2012, 2013, 2014
- Real Analysis I 2009, 2015
- Real Analysis II 2010
- Ordinary Differential Equations 2009
- Sequences and Series of Functions 2008
- Mathematical Modeling 2004
- Complex Analysis 2004
- Calculus 2002, 2003, 2004

CNA WORKING GROUPS ORGANIZED

- Optimal transportation and applications Fall 2016
- Particle and graph based models with nonlocal interactions and applications to biology and data analysis Fall 2013
- Large deviations, interacting particle systems, PDE, and mass transport Spring 2011
- Deterministic and stochastic models of aggregation Spring 2009

STUDENT SEMINARS AND COLLOQUIA

- CNA Summer Undergraduate Applied Mathematics Institute, June 2012
- Undergraduate Colloquium, Carnegie Mellon University, February 2008
- Graduate Student Seminar, UCLA, February 2006

UNIVERSITY SERVICE

- Associate Director of the Center for Nonlinear Analysis, 2014-present
- Chair of the Zeev Nehari (postdoctoral position) Appointments Committee, 2015-present
- Member of the CNA and PIRE Postdoctoral Associate Search Committee 2014-present
- Chair of the Basic Examinations Committee, 2010-present
- Member of the Carnegie Mellon University Management Committee of the program in applied mathematics of ICTI 2007-present
  (ICTI is a virtual institute created for running a large collaboration effort between the Portuguese Government (through Ministry of Science, Technology and Education) and Carnegie Mellon University. More details about ICTI can be found at: http://www.icti.cmu.edu/)
- Member of the Search Committee for a Tenure-Track Position in Computational Mathematics, 2014-2015
- Member of the Undergraduate Curriculum Committee, 2010-2015
- Member of the Mellon College of Science Ad-Hoc Nontenure Promotion Committee, 2011-2012
- Member of the Search Committee for a Tenure-Track Position in Applied Analysis, 2011-2012
- Member of the Guy Berry Graduate Research Award Committee, 2010-2012
- Chair of the Graduate Studies Core Requirements Committee, 2008-2009
- Member of the Search Committee for a tenure-track position in applied analysis, 2007-2009
- Member of the Zeev Nehari (postdoctoral position) Appointments Committee, 2007-2008
- Member of the departmental Website Design Committee, 2007-2008