

Jung-Ha An

California State University, Stanislaus
Department of Mathematics
One University Circle
Turlock, CA 95382

Phone: (209) 419-9552
Fax: (209) 667-3848
Email: jan@csustan.edu
URL: <http://www.csustan.edu/math/an>

Education

- Doctoral Degree (Ph.D): Mathematics - 2005
University of Florida, Gainesville, Florida
 - Topic: Various Methods in Shape Analysis and Image Segmentation and Registration
 - Supervisor: Dr. Yunmei Chen - Professor, University of Florida
- Master of Science Degree (M.S): Mathematics - 1997
Chonbuk National University, Chonju, South Korea
 - Topic: A Note on Uniform Integrability and Vitali's Convergence Theorem
 - Supervisor: Dr. JongPyo Lee - Emeritus Professor, Chonbuk National University
- Bachelor of Science Degree (B.S): Mathematics - 1995
Chonbuk National University, Chonju, South Korea

Academic Experience

- August, 2012 - Present: Associate Professor
Department of Mathematics
California State University, Stanislaus, Turlock, California
- August, 2007 - August 2012: Assistant Professor
Department of Mathematics
California State University, Stanislaus, Turlock, California
- September, 2005 - August, 2007: Industrial Postdoctoral Associate
Institute for Mathematics and its Applications (IMA)
University of Minnesota, Minneapolis, Minnesota
 - Attending IMA Thematic Year Imaging Workshop at IMA (September, 2005 - August, 2006)
Faculty Mentor: Dr. Fadil Santosa - Professor and Director of IMA, University of Minnesota
 - Working at Industrial Partner, Siemens Corporate Research (September, 2006 - August, 2007)
Industrial Mentor: Dr. Chenyang Xu - General Manager at Siemens USA
- September, 1999 - August, 2005: Instructor/Teaching Assistant
Department of Mathematics
University of Florida, Gainesville, Florida

Research Interests

Mathematical Modeling, Mathematical Biology, Medical Imaging, Image Processing, Image Analysis, Calculus of Variations, Applied Partial Differential Equations, Statistical Shape Analysis, Pattern Recognition and Classification.

Referred Publications

- [1] Jessica DeSilva, Karen Murata, and **Jung-Ha An** [2012]. “The Alignment of Arbitrary Contours Using Area Difference Distance Measurement,” Society for Industrial and Applied Mathematics (SIAM) Undergraduate Research Online Journal, pp. 204-218, August 2012 (Research with Undergraduate Students)
- [2] **Jung-Ha An** [2012]. “Developing Mathematics Modeling Curriculum Using Difference Equations” The 12th International Congress on Mathematical Education (ICME), pp. 3168-3177, Seoul, South Korea, July, 2012
- [3] **Jung-Ha An**, Paul Bigeleisen, and Steven Damelin [2011]. “Identification of Nerves in Ultrasound Scans Using a Modified Mumford-Shah Functional and Prior Information,” International Conference on Computer Science and Applications 2011 at World Congress on Engineering and Computer Science 2011, Volume I, pp. 13-16, San Francisco, California, October, 2011
- [4] **Jung-Ha An** and Yunmei Chen [2011]. “A Piecewise Constant Region Based Simultaneous Image Segmentation and Registration,” International Conference on Signal Processing and Imaging Engineering 2011 at World Congress on Engineering and Computer Science 2011, Volume I, pp. 491-494, San Francisco, California, October, 2011
- [5] **Jung-Ha An** [2010]. “Mathematical Modeling Using Difference Equations”, Journal of Central California Mathematics Project, pp. 22-27 2010
- [6] **Jung-Ha An**, Steven Damelin, and Paul Bigeleisen [2009]. “Medical Image Segmentation Using Modified Mumford Segmentation Methods,” Section VII The Future of Ultrasound in the Ultrasound-Guided Regional Anesthesia and Pain Medicine book, pp. 289-294 November 2009
- [7] **Jung-Ha An** [2008]. “Various Elements for the Effective Teaching,” Faculty Voices 6, pp. 9-11, California State University, Stanislaus, 2008
- [8] **Jung-Ha An**, Mikael Rousson, and Chenyang Xu [2007]. “Gamma-Convergence Approximation to Piecewise Smooth Medical Image Segmentation,” Medical Image Computing and Computer-Assisted Intervention (MICCAI), pp. 495-502, Brisbane, Australia, October, 2007
- [9] **Jung-Ha An** and Yunmei Chen [2007]. “Region Based Image Segmentation using a Modified Mumford-Shah Algorithm,” Scale Space Variational Methods (SSVM) in Computer Vision, pp. 733-742, Ischia, Italy, June, 2007
- [10] **Jung-Ha An**, Yunmei Chen, Myron Chang, David Wilson, and Edward Geiser [2006]. “Generating Geometric Models through Self-Organizing Maps,” Multiscale optimization methods and applications, Nonconvex Optim. Appl., 82, Springer, pp. 241–250, New York, USA, 2006
- [11] **Jung-Ha An**, Yunmei Chen, Feng Huang, David Wilson, and Edward Geiser [2005]. “A New Variational PDE Based Level Set Method for Simultaneous Segmentation and Non-Rigid Registration,” Medical Image Computing and Computer-Assisted Intervention (MICCAI), pp. 286–293, California, USA, 2005
- [12] **Jung-Ha An** [2005]. “Various Methods in Shape Analysis and Image Segmentation and Registration,” Dissertation, University of Florida, 2005
- [13] Thomas Grandine, **Jung-Ha An**, Viktoria Averina, Giulio Ciruolo, Wondimagegnehu Germew, Derek Hansen, Guo Luo, and Todd Moeller [2004]. “Surface Registration via Umbilics,” 2004 IMA Summer Program: Mathematical Modeling in Industry - A Workshop for Graduate Students, August 9 - 18, 2004, University of Minnesota, Minneapolis, Minnesota (<http://www.ima.umn.edu/talks/workshops/MM8.9-18.04/team3/report.pdf>)
- [14] Gregory Hicks, **Jung-Ha An**, Ibrahimou Boubakari, Richard Burgess, Kavuri Hariharanath, Billy Jackson, and Matthew Walker [2004]. “The Unifying of Perspective on Attitude and Shape Control,” CRSC Technical Report, CRSC-TR04-41, pp. 1–14, December 2004

Work in Progress

- [1] Paulos Alemu, Joshua Galvez, Jo Fawna Reali, and Susana Urquizo, and **Jung-Ha An** [2012].
 “The Two-Dimensional Smoothing of Images Via the Total Variational Model,” To be Submitted
 in November 2012 (Research with Undergraduate Students)
- [2] Paulos Alemu, Joshua Galvez, Jo Fawna Reali, and Susana Urquizo, and **Jung-Ha An** [2012].
 “Calculus of Variations; Minimizing a Family of Functions,” (Research with Undergraduate Students)

Grant Activities

- **[In Progress]** PI. EXTREEMS-QED Grant (\$600,000) [2012] National Science Foundation (NSF)
 (To be Submitted in December 2012)
- **[In Progress]** PI. Faculty-Student Collaborative Research: Development Grant Program (\$15,000) [2012]
 CSU Program for Education and Research in Biotechnology (CSUPERB) (To be Submitted in December 2012)
- PI. National Research Experience for Undergraduates Program (NREUP) Grant (\$27,465) [2012]
 Mathematical Association of America (MAA)
- AWM Travel Grant (\$2,000) [2012] Association of Woman Mathematics travel grant for ICME 2012
 Conference
- President’s Travel Grant (\$1,000) [2012] California State University, Stanislaus
- Co-PIs. MAA Grant (\$2,000) [2011] Mathematical Association of America conference grant for the
 Eighth Annual Northern California Undergraduate Mathematics Conference 2012 at California
 State University, Stanislaus
- AWM Travel Grant (\$1,880) [2011] Association of Woman Mathematics travel grant for ICIAM 2011
 Conference
- PI. President’s Research Grant (\$2,685) [2011] 2011-2012, California State University, Stanislaus
- CSUPERB Faculty Travel Grant (\$1,000) [2011] 2011-2012, California State University Program for
 Education and Research in Biotechnology
- President’s Travel Grant (\$3,000) [2011] 2011-2012, California State University, Stanislaus
- PI. Research, Scholarship and Creative Activity (RSCA) Grant [2010] (\$4,950) 2010-2011, California State
 University, Stanislaus
- Dean’s Travel Initiative (\$750) [2009] 2009-2010, California State University, Stanislaus
- Dean’s Travel Initiative (\$140) [2009] California State University, Stanislaus
- PI. Naraghi Faculty Research Grant (\$1,120) [2008] 2008-2009, California State University, Stanislaus
- Naraghi Faculty Travel Grant (\$1,000) [2008] 2008-2009, California State University, Stanislaus
- PI. Naraghi Faculty Research Grant (\$4,500) [2007] 2007-2008, California State University, Stanislaus
- Naraghi Faculty Travel Grant (\$1,000) [2007] 2007-2008, California State University, Stanislaus

Awards

- **Elizabeth Anne B. Papageorge Faculty Development Award for 2009-2010** (\$500), California
 State University, Stanislaus (<http://www.csustan.edu/facultyhandbook/ListofAwardWinners.html>)
- Graduate Student College of Liberal Arts and Sciences Travel Award (\$250), 2005, University of Florida
- Graduate Student Teaching Award (University-wide) (\$500), April, 2005, University of Florida
- Award for Excellence in Teaching, March, 2005, Department of Mathematics, University of Florida
- Society for Industrial and Applied Mathematics Graduate Student Travel Award (\$500), March, 2004
- Award for Excellence in Teaching, March, 2003, Department of Mathematics, University of Florida
- Award for Academic Achievement by an International Student, April, 2000, University of Florida
- Korean National Science Scholarship (\$1,000) (1997-1998)

Research Advising Activities

- Research Advisor for the total of 11 students including 8 underrepresented undergraduates on imaging research, Department of Mathematics, California State University, Stanislaus (2010-Present)
 - 2012-Present: Isotropic Image Smoothing Using an Edge-Detector Function with Camila Reyes
 - 2012-Present: Total Variational Image smoothing in Calculus of Variations with Paulos Alemu, Joshua Galvez, Jo Fawna Reali, and Susana Urquizo
 - 2011-2012: Calculus of Variations with Emphasis on Derivations of Euler-Lagrange Equations in Imaging with Jason Barnett
 - 2011-2012: Applying Gradient Descent and Finite Differences Schemes in Contour Extraction with William Bishop
 - 2011-2012: The Alignment of Arbitrary Contours Using Area Difference Distance Measurement with Jessica De Silva and Karen Murata
 - 2010-2011: Vector Calculus with Emphasis on Green's Theorem with Jason Barnett and William Bishop
 - 2010-2011: Vector Calculus with an Application to Classical Mechanics with Daniel Aguilar and Maril Soomalan

Teaching Experiences

- 2007 - Present: Instructor in Intermediate Algebra for Math/Science (MATH 0110), College Algebra (MATH 1070), Trigonometry (MATH 1080), Precalculus (MATH 1100), Finite Mathematics (MATH 1500), Statistics for Decision Making (MATH 1610), Calculus with Applications I (MATH 1910), Introduction to Differential Equations (MATH 2460), Linear Algebra (MATH 2530), Geometry for Teachers (MATH 3030), Differential Equations (MATH 3230), Applied Mathematical Models (MATH 3350), and Complex Variables (MATH 4600) Courses at the Department of Mathematics, California State University, Stanislaus
 - Best Course Evaluation: Intermediate Algebra for Math/Science - 4.7/5
 College Algebra - 4.3/5
 Finite Mathematics - 4.4/5
 Statistics for Decision Making - 4.6/5
 Calculus with Applications I - 4.9/5
 Introduction to Differential Equations - 4.5/5
 Differential Equations - 4.7/5
 Applied Mathematical Models - 4.9/5
- 1999 - 2005: Lecturer and Teaching Assistant in Trigonometry (MAC1114), Precalculus (MAC1147), Survey of Calculus (MAC 2233), Analytic Geometry and Calculus I (MAC 2311), Analytic Geometry and Calculus II (MAC 2312), and Elementary Differential Equations (MAP 2302) Courses at the University of Florida
 - Best Course Evaluation: Trigonometry - 4.11/5
 Precalculus - 5/5
 Survey of Calculus - 4.86/5
 Analytic Geometry and Calculus I - 4.95/5
 Analytic Geometry and Calculus II - 4.86/5
 Elementary Differential Equations - 4.33/5
- 2001 - 2002: Upward Bound Program Instructor at the University of Florida
- 1999 - 2005: Over Thirty Privately Tutored American Students
- 1996 - 1999: Extensive Teaching Experience in South Korea

Responsible for all course duties including course policy, creating course web-page, writing lesson plans, conducting discussions and lectures, assigning grades, and curriculum developments.

Services

- College of Natural Science Steering Committee for Hispanic Serving Institute STEM Grant, California State University, Stanislaus (2012-Present)
- Judge at the undergraduate students research poster session at the 2012 Joint Mathematics meeting, Boston, Massachusetts (2012)
- Co-Organizers and Co-Directors for the Eighth Annual Northern California Undergraduate Mathematics Conference 2012 at California State University, Stanislaus (2012)
- Referee for the IEEE International Symposium on Biomedical Imaging (ISBI) (2012)
- Mentor at the Hispanic Serving Institute STEM Grant, College of Natural Science, California State University, Stanislaus (2011-Present)
- Mentor at the Financial Awareness Means Equity (FAME) Summer Program, California State University, Stanislaus (2011)
- Co-Chair of Technology and Learning Subcommittee of the University Educational Policies Committee, California State University, Stanislaus (2011-2012)
- College of Natural Science Budget and Planning Committee, California State University, Stanislaus (2011-Present)
- Co-Organizer of Mathematics and Computer Science Speaker Series, California State University, Stanislaus (2011-2012)
- Referee for the Medical Imaging Computing and Computer-Assisted Intervention (MICCAI) (2011)
- Referee for the Pilot Funding for New Research 103 (2011)
- Board of Directors at the Faculty Mentor Program, California State University, Stanislaus (2010-2011)
- Referee for the IEEE International Symposium on Biomedical Imaging (ISBI) (2010)
- Judge at the undergraduate students research poster session at the Joint AMS-MAA meeting, San Francisco, California (2010)
- Referee for the Pilot Funding for New Research 103 (2009)
- Referee for the Medical Imaging Computing and Computer-Assisted Intervention (MICCAI) (2009)
- Co-founder and Co-advisor at the California State University Stanislaus Student Chapter of the Society for Industrial and Applied Mathematics (SIAM) (\$500 grant obtained from SIAM for each year) (2008-Present)
- Mentor at the Preparing Women for Mathematical Modeling Robotics (PWMMR) Summer Program, California State University, Stanislaus (2008)
- Referee for the Medical Imaging Computing and Computer-Assisted Intervention (MICCAI) (2008)
- Referee for the Journal of Mathematical Imaging and Vision (2008)
- Mentor for the under-served students at the Faculty Mentor Program, California State University, Stanislaus (2007-Present)
- Advisor at the Department of Mathematics California State University, Stanislaus (2007-Present)
- Referee for the IEEE Transactions on Image Processing (2006)
- A chair for CP6 Image Segmentation session in SIAM Conference on Imaging Science (2006)
- Organizer of the Institute for Mathematics and its Applications (IMA) Postdoctorate seminar at the University of Minnesota (2005-2006)
- Referee for the Energy Minimization Methods in Computer Vision and Pattern Recognition (EMMCVPR) conference (2005)
- Organizer and Editor of the SIAM Gator Student Workshop at the University of Florida (2004)
- Vice President of the SIAM Gator Chapter at the University of Florida (2003-2004)
- Treasurer of the SIAM Gator Chapter at the University of Florida (2002-2003)
- Vice President of the Noetherian Ring Chapter at the University of Florida (2001-2002)
- Secretary of the Graduate Mathematics Student Organization at the University of Florida (2000-2001)

Invited Talks and Presentations

- 2012 “Developing Mathematics Modeling Curriculum Using Difference Equations,” Invited Talk, July 2012, The 12th International Congress on Mathematical Education (ICME) 2012, Seoul, South Korea
- 2012 “Identification of Nerves in Ultrasound Scans Using a Modified Mumford-Shah Functional and Prior Information,” Invited Talk, January 2012, AMS Session on Calculus of Variations, Optimal Control, and Optimization, 2012 Joint Mathematics Meeting. Boston, Massachusetts
- 2011 “Identification of Nerves in Ultrasound Scans Using a Modified Mumford-Shah Functional and Prior Information,” Invited Talk, October 2011, International Conference on Computer Science and Applications 2011, San Francisco, California
- 2011 “A Piecewise Constant Region Based Simultaneous Image Segmentation and Registration,” Invited Talk, October 2011, International Conference on Signal Processing and Imaging Engineering 2011, San Francisco, California
- 2011 “Gamma-Convergence Approximation to Piecewise Smooth Medical Image Segmentation,” Invited Talk, July 2011, the AWM Workshop for Women Graduate Students and Recent PhDs at the ICIAM 2011 Conference, Vancouver, Canada
- 2011 “Mathematics in Our Daily Life,” Invited talk, April 2011, Faculty Center Lecture Series, California State University Stanislaus, Turlock, California
- 2011 “A Piecewise Smooth Image Segmentation Using Gamma-Convergence Approximation in Medical Imaging,” Invited Talk, April 2011, Department of Mathematics, Georgia Institute of Technology, Atlanta, Georgia
- 2010 “A Modified Piecewise Constant Mumford-Shah Model Based Simultaneous Image Segmentation and Registration,” Poster Presentation, April, 2010, Society for Industrial and Applied Mathematics (SIAM), Imaging Sciences Meeting, Chicago, Illinois
- 2010 “A Modified Piecewise Constant Mumford-Shah Model Based Simultaneous Image Segmentation and Registration,” Contributed Talk, January, 2010, Joint American Mathematical Society (AMS) - Mathematical Association of America (MAA)
- 2009 “What is Mathematical Modeling?” Invited Talk, March, 2009, SIAM Student Chapter at the California State University, Stanislaus, Turlock, California
- 2008 “Identification of Nerves in Ultrasound Scans Using a Modified Mumford-Shah Model and Prior Information,” Poster Presentation, October, 2008, RSCA Week 2008 at California State University, Stanislaus, Turlock, California
- 2008 “Identification of Nerves in Ultrasound Scans Using a Modified Mumford-Shah Model and Prior Information,” Invited Talk and Poster Presentation, July, 2008, SIAM, Imaging Sciences, San Diego, California
- 2008 “Gamma-Convergence Approximation to Piecewise Smooth Medical Image Segmentation,” Invited Talk, February, 2008, Mathematics and Computer Science Speaker Series, California State University, Stanislaus, Turlock, California
- 2008 “Generating Prior Shape and Simultaneous Image Segmentation and Registration with an Application to Medical Imaging,” Invited Talk, February, 2008, Mathematics and Computer Science Speaker Series, California State University, Stanislaus, Turlock, California
- 2008 “Gamma-Convergence Approximation to Piecewise Smooth Medical Image Segmentation,” Contributed Talk, January, 2008, Joint American Mathematical Society (AMS) - Mathematical Association of America (MAA) - Society for Industrial and Applied Mathematics (SIAM) Mathematics Meetings, San Diego, California
- 2007 “Is Mathematics Everywhere?” Invited Talk, November, 2007, HiMAP, California State University, Stanislaus, Turlock, California
- 2007 “Simultaneous Clustering and Classification of Human Heart Ultrasound Contours using a Self-Organizing Map,” Invited Talk, June, 2007, International Symposium on Therapeutic Ultrasound (ISTU), Seoul, Korea
- 2007 “Region Based Image Segmentation using a Modified Mumford-Shah Algorithm,” Scale Space Variational Methods (SSVM) in Computer Vision, Poster Presentation, June, 2007, Ischia, Italy
- 2007 “Variational Region Based Methods with an Application to Medical Imaging,” Invited Talk, April, 2007, Department of Mathematical Sciences, University of Texas at Dallas, Texas
- 2007 “Variational Partial Differential Equation Models with an Application to Medical Imaging,”

- Invited Talk, March, 2007, Department of Mathematics, Western Carolina University, North Carolina
- 2007 “The Fixed-Point and the Newton-Rhapson Method,” Invited Talk, March 2007, Department of Mathematics, California State University, Stanislaus
- 2006 “Medical Imaging with Variational Partial Differential Equation(PDE) Methods,” Invited Talk, October, 2006, Department of Mathematics, Georgia Southern University, Georgia
- 2006 “Generating Prior Shape and a Simultaneous Segmentation and Registration,” Invited Talk, July, 2006, Kyungbook National University, South Korea
- 2006 “A Modified Mumford-Shah Model Based Simultaneous Segmentation and Registration,” Invited Talk, May, 2006, SIAM Conference on Imaging Science, Minneapolis, Minnesota
- 2006 “A Method for Simultaneous Image Segmentation and Registration,” Invited Talk, April, 2006, Siemens Corporate Research, Inc., Princeton, New Jersey
- 2006 “A Modified Mumford-Shah Model Based Simultaneous Segmentation and Registration,” Poster Presentation, March, 2006, Second Young Researchers Workshop in Mathematical Biology, Mathematical Biosciences Institute (MBI), Ohio State University, Columbus, Ohio
- 2006 “Image Segmentation using a Modified Mumford-Shah Model,” Poster Presentation, January, 2006, New Mathematics and Algorithms for 3-D Image Analysis, Institute for Mathematics and its Applications (IMA) Imaging Workshop, Minneapolis, Minnesota
- 2005 “A Modified Mumford-Shah Model Based Simultaneous Segmentation and Registration,” Poster Presentation, December, 2005, Integration of Sensing and Processing, Institute for Mathematics and its Applications (IMA) Imaging Workshop, Minneapolis, Minnesota
- 2005 “A New Variational PDE Based Level Set Method for Simultaneous Segmentation and Non-Rigid Registration,” Poster Presentation, October, 2005, MICCAI 2005, Palm Springs, California
- 2005 “A New Variational PDE Based Level Set Method for Simultaneous Segmentation and Non-Rigid Registration,” Invited Talk, September, 2005, Institute for Mathematics and its Applications (IMA) Postdoctorate Seminar, Minneapolis, Minnesota
- 2004 “Various Statistical Methods for Shape Analysis,” Invited Talk, November, 2004, SIAM Gators Seminar, Gainesville, Florida
- 2004 “A Joint Segmentation and Non-Rigid Registration with an Application to Medical Imaging,” Invited Talk, October, 2004, SIAM Gators Seminar, Gainesville, Florida
- 2004 “Surface Registration via Umblics,” Invited Talk, October, 2004, SIAM Gators Seminar, Gainesville, Florida
- 2004 “The Unifying of Perspective on Attitude and Shape Control,” Invited Talk, September, 2004, SIAM Gators Seminar, Gainesville, Florida
- 2004 “Shape Analysis and Image Segmentation and Registration,” Invited Talk, June, 2004 Chonbuk National University, Chon-ju, Chonbuk, South Korea
- 2004 “A Joint Segmentation and Non-Rigid Registration with an Application to Medical Imaging,” Invited Talk, May, 2004 Chonnam National University, Kwang-ju, Chonnam, South Korea
- 2004 “A Joint Segmentation and Non-Rigid Registration with an Application to Medical Imaging,” Poster Presentation, May, 2004, 2004 SIAM Imaging conference, Salt Lake city, Utah
- 2004 “Generating Geometric Models Through Self-Organizing Maps,” Invited Talk, March 2004, 2004 SIAM Gators Student Workshop, Gainesville, Florida

Attended Conferences

- 2012 The 12th International Congress on Mathematical Education (ICME) 2012, Seoul, South Korea
- 2012 Joint Mathematics Meeting. Boston, Massachusetts
- 2011 California State University CUR Workshop, Los Angeles, California (Financial Support from Council on Undergraduate Research)
- 2011 International Conference on Computer Science and Applications 2011, San Francisco, California
- 2011 International Conference on Signal Processing and Imaging Engineering 2011, San Francisco, California
- 2011 AWM Workshop for Women Graduate Students and Recent PhDs at the ICIAM 2011 Conference, Vancouver, Canada
- 2011 Northern California Undergraduate Mathematics Conference, Stockton, California
- 2010 Society for Industrial and Applied Mathematics (SIAM), Imaging Sciences Meeting, Chicago, Illinois

- 2010 AMS and MAA Joint National Mathematics Meeting, San Francisco, California
- 2009 US/CSU STEM Faculty Summit, Irvine, California (Financial Support from UC Office of the President Academic Advancement and the Dean's Travel Initiative, California State University, Stanislaus)
- 2008 RSCA Week 2008 at CSU Stanislaus, Turlock, California
- 2008 Society for Industrial and Applied Mathematics (SIAM), Imaging Sciences Meeting, San Diego, California
- 2008 Write Winning Grants Workshop, California State University, Stanislaus, Turlock, California
- 2008 Marcy Cook Algebra Workshop, Modesto, California
- 2008 AMS and MAA Joint National Mathematics Meeting, San Diego, California
- 2007 International Symposium on Therapeutic Ultrasound (ISTU), Seoul, Korea
- 2007 Scale Space Variational Methods (SSVM) in Computer Vision, Ischia, Italy
- 2007 AMS and MAA Joint National Mathematics Meeting, New Orleans, Louisiana
- 2006 SIAM Conference on Imaging Science, Minneapolis, Minnesota
- 2006 Second Young Researchers Workshop in Mathematical Biology, Mathematical Biosciences Institute (MBI), Columbus, Ohio (Financial Support from MBI, Ohio State University)
- 2005 Medical Image Computing and Computer-Assisted Intervention (MICCAI) Palm Springs, California
- 2004 IMA Mathematical Modeling in Industry - A Workshop for Graduate Student, University of Minnesota, Minneapolis, Minnesota (Financial Support from IMA, University of Minnesota)
- 2004 IMSM Workshop for Graduate Students, North Carolina State University, Raleigh, North Carolina (Financial Support from CRSC and SAMSI, North Carolina State University)
- 2004 SIAM Imaging conference, Salt Lake city, Utah
- 2004 SIAM Gators Student Workshop, University of Florida, Gainesville, Florida (This workshop was funded by the National Science Foundation)
- 2003 Applied Inverse Problems: Theoretical and Computational Aspects, University of California Los Angeles, Los Angeles, California (Financial Support from IPAM, University of California Los Angeles)
- 2002 Fall Southeastern American Mathematical Society Section Meeting, Orlando, Florida
- 2001 Stochastic Processes Seminar, University of Florida, Gainesville, Florida

Professional Affiliations

- Society for Industrial and Applied Mathematics (SIAM)
- California Faculty Association (CFA)
- California Upsilon for Pi Mu Epsilon (PME)

Computer Skills

- Operating Systems: Unix (Linux) and Windows
- Applications: Word Processing (MS-Word) and Text Formatting (Latex/Tex)
- Programming: Matlab and C/C++