

CRISTINA NEGOITA

3201 campus Dr, Owens Hall 105
Klamath Falls, Oregon 97601
work: 541.885.1474
email: cristina.negoita@oit.edu
<http://tangent.oit.edu/~negoitac>

EDUCATION

- **Ph.D., Applied Mathematics** August 1998 - August 2003
Arizona State University, Tempe, Arizona
Thesis: *Global Kinetic Imaging Using Dynamic Positron Emission Tomography Data*
Advisor: Dr. Rosemary Renaut
- **B.A., Mathematics** September 1992 - September 1995
University of Oregon, Eugene, Oregon
Honors Thesis: *A Fractal Drawing Machine*
Advisor: Dr. Richard Koch

PROFESSIONAL EXPERIENCE

- Assistant Professor (Tenure-Track Position, Annual), *Dept. Math.*,
Oregon Institute of Technology, September 2004 - present
Selected Courses Taught: College Algebra, Differential and Integral Calculus, Vector Calculus, Discrete Mathematics, Linear Algebra, Partial Differential Equations.
- Sustainability Co-coordinator, *Oregon Renewable Energy Center*,
Oregon Institute of Technology, Spring 2008 - present
Duties: Plan and coordinate university wide activities related to sustainability, represent OIT at local conferences and community events, prepare documents that reflect current initiatives at the university, organize events during Convocation, oversee student workers.
- Assistant Professor in Research (Visiting Prof.), *Dept. Math. & Stat.*,
Arizona State University, August 2003 - July 2004
Courses Taught: Calculus II, Elementary Linear Algebra
Research: Spectral Methods, Gibbs Phenomenon
- Graduate Teaching Assistant, *Dept. Math. & Stat.*,
Arizona State University, Fall 1998 - 1999, Fall 2001 - 2002, Spring 2003
Courses Taught: College Algebra, PreCalculus, Brief Calculus, Differential Calculus
- Graduate Research Assistant, *Dept. Math. & Stat.*,
Arizona State University, Summer 1999 - Summer 2001
Research: Functional Imaging using PET, Parameter Estimation, Inverse Problems
- Scripter/Programmer, *Dynamix*, Sierra on Line, Eugene, OR, 1995 - 1998

AWARDS and FELLOWSHIPS

- S-STEM Grant Award, National Science Foundation, *Expanding Participation in Computing*, Co-PI, \$596,000 for the years 2008 - 2013.
- Travel Award, Inquiry Based Learning Workshop, Los Angeles, CA, Summer 2007 (\$2000 award)
- Project NExT (New Experiences in Teaching) Fellow, Pacific NW Section, awarded 2006 (\$400 award)
- Graduate Student Research Award, Arizona State University, Spring 2003 (\$1000 award)

- Marie Curie Fellowship, Universidad Politecnica de Madrid, Fall 2002
- Travel Award, Preparing Future Faculty at ASU, Summer 2001
- Travel Award, Association of Women in Mathematics, Summer 2000
- Graduate Research Fellowship, Arizona State University, 1999 - 2001, 2002
- Graduate Teaching Fellowship, Arizona State University, 1998, 1999, 2001, 2003

CONFERENCE and POSTER PRESENTATIONS

- C. Negoita and James Bisgard (Central Washington University), co-organizers of a panel on *Team Teaching Experiences in Mathematics*, Annual Meeting of the Pacific NorthWest Project NEXt, Carroll College, Helena, Montana, June 2008.
- C. Negoita, *An Application of the Slice Theorem for the Reconstruction of X-ray Data*, Annual Meeting of the Pacific NorthWest Section of MAA, Linfield College, McMinnville, Oregon, April 2007.
- C. Negoita, *A Discrete Math Course On-Line*, Annual Meeting of the Pacific NorthWest Project NEXt, Linfield College, McMinnville, Oregon, April 2007.
- C. Negoita, *An Application of the Slice Theorem for the Reconstruction of X-ray Data*, Oregon Institute of Technology Mathematics Colloquium, Klamath Fall, Oregon, November 2006.
- C. Negoita, *A Volterra Integral Model*, PNW Section of MAA, Southern Oregon University, Ashland, Oregon, June 2006.
- C. Negoita, R. Renaut, K. Chen, *An Application of Volterra Integrals to Kinetic Modeling Using PET Data*, The Third International Conference on the Numerical Solution of Volterra and Delay Equations, Tempe, Arizona, May 2004.
- C. Negoita, R. Renaut, A. Santos, *Nonlinear Anisotropic Diffusion in Positron Emission Tomography Kinetic Imaging*, Poster Presentation, SIAM Conference on Imaging Science, Salt Lake City, Utah, May 2004.
- C. Negoita, *A Constrained Filtered Least Squares Method Applied to a Problem in Medical Imaging*, 3rd Annual Intermountain/Southwest Conference on Industrial and Interdisciplinary Mathematics, Tempe, Arizona, February 2004.
- C. Negoita, *Global Kinetic Imaging for Fluoro-Deoxy-Glucose with Positron Emission Tomography*, American Mathematical Society, Phoenix, Arizona, January 2004.
- C. Negoita, *Parametric Imaging with Dynamic FDG Positron Emission Tomography for the Early Detection of Alzheimer's Disease*, Earth, Life, and Social Sciences Graduate Research Symposium, Tempe, Arizona 2003.
- C. Negoita, *Global Kinetic Imaging using FDG Positron Emission Tomography Data*, Marie Curie EU Workshop, San Sebastian, Spain 2002.
- C. Negoita, R. Renaut, K. Chen, E. Reiman, *An Alternative in Model Formulation and Parameter Estimation for Kinetic Positron Emission Tomography Studies: Volterra Integral Equations Approach*, Society for Nuclear Medicine 49th Annual Meeting, Los Angeles, California, July 2002.
- C. Negoita, *Parametric Estimation for Brain Positron Emission Tomography - a Comparison Study*, Poster Presentation at AWM Conference held in conjunction with SIAM Annual Meeting, Rio Grande, Puerto Rico 2000.

PUBLICATIONS

- C. Negoita and R. Renaut, *On the Convergence of the Generalized Linear Least Squares Algorithm*, BIT Numerical Mathematics, 2005.
- C. Negoita, R. Renaut, K. Chen, *Determination of Individual Cerebral Glucose Uptake Parameters in PET Alzheimer Studies Utilizing a Non-invasive Acquisition Procedure*, Proceedings of the METMBS International Conference, Las Vegas, Nevada 2000.

PROFESSIONAL AFFILIATIONS

- Member, Mathematical Association of America (MAA)
- Member, Association of Women in Math (AWM)
- Member, Society of Industrial and Applied Mathematics (SIAM)

OTHER ACTIVITIES

- University-Wide Committees: Strategic Enrollment Management Committee (2005 through present), Sustainability Committee (2007 through present), Academic Progress and Petitions Committee (2007 through present), Rank, Tenure and Promotion Senate Subcommittee (2007-2008).
 - Search Committees: Executive Director for Enrollment Management (unsuccessful, 2007), Library Director (unsuccessful, 2007), Mathematics Instructor (successful hire, 2008).
 - Department Committees: Math Major Committee (advising, major curriculum, assessment) (2004 through present)
 - Departmental Content Manager (DCM) for the department's official web-site (www.oit.edu/math)
 - Participant in Pre-College programs (*TWIST*, *Expanding Your World*, *I'm Going to College*, *LEGO League Robotics Tournament*), Oregon Institute of Technology, 2004, 2005 and 2007.
 - Departmental liaison for MAA (Mathematical Association of America) and for OIT's Library
 - Annual Math Contest - help administer regional contest to local high school students.
 - Distance Education Course Reviewer - reviewed a variety of courses (Trigonometry MTH112, Women in Business BUS407, Dental Hygiene DH453, Statistics MTH361) as an "experienced WebCT instructor".
 - Preparing Future Faculty program at Arizona State University 1999 - 2001
 - Co-organizer of the Women in Math organization at Arizona State University 2000 - 2001
 - Preparing Future Mathematics Faculty program at Arizona State University 1999 - 2000
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