

Karin M. Leiderman

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| EDUCATION | Ph.D., Mathematics, May 2009 (expected). University of Utah, Salt Lake City, Utah M.S., Mathematics, May 2004. University of New Mexico, Albuquerque, New Mexico B.S., Mathematics, December 2001. University of New Mexico, Albuquerque, New Mexico |
| ACADEMIC EXPERIENCE | University of Utah, Salt Lake City, Utah August 2005 - August 2008 <i>Teaching and Research Assistant</i> IAS/PCMI Summer School, Park City, Utah June 26-July 16, 2005 <i>Teaching Assistant & Participant in Mathematical Biology Graduate Program</i> Univ. Nacional Autnoma de Honduras, Tegucigalpa, Honduras June 13 - June 25, 2004 <i>Program Participant in Pan-American Advanced Studies Institute</i> University of New Mexico, Albuquerque, New Mexico January 2003 - May, 2004 <i>Research Assistant</i> Institute for Advanced Study, Princeton, New Jersey May 12-22, 2003 <i>Participant in Program for Women in Mathematics</i> University of New Mexico, Albuquerque, New Mexico August - December 2002 <i>Teaching Assistant</i> |
| AWARDS AND SCHOLARSHIPS | Best Student Oral Presentation Award January 2007 Society for Integrative and Comparative Biology Annual Meeting - Biomechanics Division Student Project Award July 2005 IAS/PCMI Graduate Summer School award for "most original work" Joint work with Alexandra Jilkine, Atila Toth, Leah Keshet, and Nicholas Hill Research Fellowship August 2004 - August 2006 NSF-IGERT Fellowship for Cross-Disciplinary Research Training in Mathematical Biology Research Fellowship January 2003 - May 2004 UNM Health Sciences Center - National Institute of Health |
| PUBLICATIONS | •Leiderman, K., Miller, L.A., and Fogelson, A.L. <i>Journal Theor. Bio.</i> Feb 2008 In Press •Leiderman, K., Steinberg, SL. <i>Mathematics and Computers in Simulation.</i> 2008;774(4):383-399. •Zhang J, Leiderman K, Pfeiffer JR, Wilson BS, Oliver JM, Steinberg SL. <i>Micron.</i> 2006;37(1):14-34. Epub 2005 Jul 11. Review. •Oliver JM, Pfeiffer JR, Surviladze Z, Steinberg SL, Leiderman K, Sanders ML, Wofsy C, Zhang J, Fan H, Andrews N, Bunge S, Boyle TJ, Kotula P, Wilson BS. <i>Subcell Biochem.</i> 2004;37:3-34. •Wilson BS, Steinberg SL, Leiderman K, Pfeiffer JR, Surviladze Z, Zhang J, Samelson LE, Yang LH, Kotula PG, Oliver JM. <i>Mol Biol Cell.</i> 2004 Jun;15(6):2580-92. Epub 2004 Mar 19 |
| CONFERENCES/PRESENTATIONS | Society for Integrative and Comparative Biology Annual Mtg, San Antonio, TX January, 2008 Poster: <i>The Effect of Spatial Inhomogeneities on Flow Through the Endothelial Surface Layer</i> SIAM Dynamical Systems Meeting, Snowbird, UT May, 2007 Poster: <i>Mathematical and Physical Modeling of the Endothelial Glycocalyx</i> MBI Workshop on Blood Flow in the Microcirculation, Columbus, OH January, 2007 Presentation: <i>Mathematical and Physical Modeling of the Endothelial Glycocalyx</i> Society for Integrative and Comparative Biology Annual Meeting, Phoenix, AZ January, 2007 Presentation: <i>Endothelial Mechanotransduction: Let's sugarcoat it!</i> Joint SIAM/SMB Meeting on the Life Sciences, Raleigh, NC August, 2006 Invited Minisymposium Presentation: <i>Endothelial Glycocalyx: Flow, Permeability and Stress</i> 2nd New Mexico Workshop on Computational Cell Biology, Santa Fe, NM January, 2004 Poster: <i>Simulation of Anomalous Diffusion to Approximate Fluorescence Recovery Data.</i> 2nd International Symposium on Computational Cell Biology, Lenox, MA March, 2003 Poster: <i>Topographical Analysis of the IgE Receptor Signaling Pathway of Mast Cells.</i> |
| PROFESSIONAL MEMBERSHIPS | Association for Women in Mathematics (AWM) Society for Industrial and Applied Mathematics (SIAM) Society for Integrative and Comparative Biology (SICB) |