

## DANIEL MAXIN

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## EDUCATION

Ph.D. Mathematics	Purdue University	August 2007
M.S. Mathematics	Purdue University	May 2005
B.S. Mathematics and Computer Science	Dunarea de Jos University, Galati, Romania	June 1997

## PROFESSIONAL EXPERIENCE

- *Assistant Professor*, Department of Mathematics and Computer Science, Valparaiso University  
August 2008-present
- *Visiting Assistant Professor*, Department of Mathematics and Computer Science, Valparaiso University  
August 2007-August 2008
- *Graduate Teaching Assistant*, Department of Mathematics, Purdue University,  
August 2001-August 2007
- *Computer Science Teacher*, “V. Alecsandri” College, Galati, Romania, September 1997-May 2001

## FELLOWSHIPS AND HONORS

- |  |  |             |
|--|--|-------------|
| • Project NExT fellowship                            | Mathematical Association of America          | 2008-2009   |
| • VIGRE fellowship                                   | Department of Mathematics, Purdue University | Summer 2007 |
| • Graduate Student Award<br>for Outstanding Teaching | Purdue University                            | 2007        |
| • Excellence in Teaching Award                       | Department of Mathematics, Purdue University | 2006-2007   |
| • Science Scholarship                                | Department of Mathematics, Purdue University | Fall 2001   |

## RESEARCH INTERESTS

- Mathematical Biology and Epidemiology
- Mathematical Modeling
- Applied Mathematics

## PAPERS

- D. Maxin, T. Olson and A. Shull, *Vertical transmission in epidemic models of sexually transmitted diseases with isolation from reproduction*, submitted
- D. Maxin, *A gender structured model with single-dependent divorce rate*, submitted
- D. Maxin, *Proving that three lines are concurrent*, [College Mathematics Journal](#), (March 2009)
- D. Maxin, *The Influence of Sexually Active Non-Reproductive groups on persistent sexually transmitted diseases*, [J. Biol. Dynamics](#), 3(5)(2009) 532-550
- D. Maxin and F.A. Milner, *The role of sexually abstained groups in two-sex demographic and epidemic logistic models with non-linear mortality*, [J. Theor. Biol.](#) 258(3) (2009), 389-402
- D. Maxin and F.A. Milner, *Effects of Non-Reproductive Groups on persistent sexually transmitted diseases*, [Math. Biosc. Engin.](#) 4(2007) 505-522

## INVITED TALKS

- Valparaiso Experience for Research by Undergraduates in Mathematics, July 2007, Valparaiso University
- MAA Session on Using Computer Algebra Systems in the Calculus Sequence, Joint AMS-MAA meeting, San Francisco, January 14<sup>th</sup>, 2010

## CONFERENCE TALKS

- Fall 2009 Indiana MAA Section Meeting, Purdue University-Calumet, October 2009
- AMS Session on Biology, II, Joint AMS-MAA meeting, Washington D.C., January 6<sup>th</sup> 2009
- Spring 2008 Indiana MAA Section meeting, St. Mary's College, March 28-29, 2008
- AMS Session on Applications of Mathematics, I, Joint AMS-MAA meeting, San Diego, January 7<sup>th</sup> 2008
- 2<sup>nd</sup> Conference on Computational and Mathematical Population Dynamics, July 16-20, 2007, Campinas, Brazil
- Spring 2007 Indiana MAA Section meeting, University of Indianapolis, March 24<sup>th</sup> 2007
- 2007 Workshop for Young Researchers in Mathematical Biology, Mathematical Biosciences Institute, Columbus, OH, March 12-15, 2007
- AMS Session on Applications of Mathematics, IV, Joint AMS-MAA meeting, New Orleans, January 8<sup>th</sup>, 2007
- Joint SIAM-SMB Conference on the Life Sciences, July 31-August 4, 2006, Raleigh, North Carolina,
- European Conference for Mathematical and Theoretical Biology, July 18-22, 2005, Dresden, Germany

## SUPERVISED UNDERGRADUATE RESEARCH

- J. Erickson and D. Maxin, *A new couple removal estimation in gender structured demographic models*, presentation, The 20<sup>th</sup> Annual Undergraduate Research Conference, Butler University, April 18, 2008
- Thomas Patrick, Tim Olson and Adam Shull, *Vertical transmission in epidemic models of STD's with isolation from reproduction*, The 26<sup>th</sup> Rose-Hulman Undergraduate Mathematics Conference, March 27-28, 2009

## TEACHING EXPERIENCE

- In U.S.A. at Valparaiso University  
Abstract Algebra I and II, Analytic Geometry and Calculus I and II, Differential Equations and Linear Algebra, Pre-calculus, Fourier Series and Boundary Value Problems, Mathematical Modeling of Infectious Diseases.
- In U.S.A. at Purdue University  
Introduction to Analysis 1 and 2, Algebra and Trigonometry 1 and 2, Pre-calculus, Calculus and Analytic Geometry 1, Plane Analytic Geometry and Calculus 2, Ordinary Differential Equations, Linear Algebra, Real Analysis (problem session).
- in Romania  
High School Teacher of Computer Science at “V.Alecsandri College”, Galati, Sept. 1997-June 2000  
Mathematics Lecturer at Business Romanian School, Galati, Sept. 1998-June 1999

## GRANTS

- Travel grant from Society of Mathematical Biology, 2006 \$500
- Travel grant from Society of Mathematical Biology and Purdue University, 2007 \$1000
- Expense grant to develop an online course in Mathematical Biology, Valparaiso University, 2008 \$1000

## MENTORING AND SERVICE

- |  |                       |                         |
|--|-----------------------|-------------------------|
| • Monthly Problem Solving Competition    | Valparaiso University | Fall 2007-present       |
| • Honor Council member                   | Valparaiso University | Spring 2008-present     |
| • Advisor undergraduate research         | Valparaiso University | Fall 2007-present       |
| • TA Peer Mentor                         | Purdue University     | Spring 2006-Summer 2007 |
| • Orientation of new teaching assistants | Purdue University     | August 2005 and 2006    |

## PROFESSIONAL MEMBERSHIP

- Society for Mathematical Biology
- American Mathematical Society
- Mathematical Association of America

## COMPUTER SKILLS

- Programming languages: C/C++, Scheme
- Computational packages: Mathematica, MATLAB, Maple