Robert A. Bridges

Purdue University

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Education

o Ph.D. Mathematics, Purdue University, GPA 3.96/4.00

Summer 2012

o B.S. Mathematics, Summa Cum Laude, Creighton University, GPA 3.99/4.00

May 2005

Grants, Fellowships, Scholarships

• Research supported by Dr. Bell's NSF Analysis and Cyber-enabled Discovery Initiative Programs, grant number DMS-1001701 Spring 2011

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• Purdue University Graduate Student Summer Research Grant Summer 2009, 2010

• VIGRE Fellowship, Purdue University

01/2007 - 08/2007 08/2005 - 08/2006

• Ross Fellowship, Purdue University

08/2005 - 08/2006

• Creighton Academic Scholarship

08/2001 - 05/2005

o John Murphy Endowed Scholarship, Creighton University

08/2001 - 05/2005

o John and Charlotte Endowed Scholarship, Creighton University

08/2003 - 08/2005

Awards

o Purdue University Outstanding Graduate T. A. award

April 2009

o Purdue University Math Department Excellence in Teaching award

November 2008 August 2008

Earned Purdue University Math Department title of "Outstanding T.A."
Creighton University Philosophy Department Ratio award

May 2005

Mathematical Consultation

 \circ I worked as a math consultant for Ogre Industries using techniques of numerical linear algebra to accurately measure parts with a CMM. Summer 2010

Publications

o Schroeder's Equation in Several Variables submitted. http://arxiv.org/abs/1106.3370.

Teaching

 \circ Thirteen of the courses I have taught provided a student evaluation of my teaching. For brevity, listed are the median response on a scale of 1 to 5 to the question "Overall I would rate this instructor as ____." Scores: 4.1, 4.2, 4.3, 4.4, 4.4, 4.5, 4.8, 4.8, 4.8, 4.8, 4.9, 4.9, 5.0.

♦ Purdue University

o Ordinary differential equations, instructor

Spring 2012

o Graduate analysis recitation/problem session, instructor

Fall 2011, 2009, 2008

o Graduate real analysis qualifying exam preparatory course, instructor

Summer 2011, 2008

• First calculus course for biology students, instructor

Fall 2010 Spring 2010

Second calculus course for technology students, instructor
Emergency substitute math T.A.

Spring 2012, 2010, Fall 2009, 2008

o Third math course for elementary education students, instructor

Spring 2009, Fall 2007

• First calculus course for agriculture students, instructor

Spring 2008

 \circ First calculus course for engineering students, recitation instructor

Fall 2006

♦CREIGHTON UNIVERSITY

2002-2005

• Math tutor **Grading**

• Graduate complex analysis

Spring 2012

o Graduate real analysis

Fall 2011, 2009, 2008

 Undergraduate real analysi Calculus midterm exams Undergraduate complex an Undergraduate differential Activities 	alysis		Spring 2010, 2009 Spring 2010 Fall 2009 Spring 2008
 Purdue University Graduat Purdue University Graduat Purdue University Campus Purdue Mathematics Depa 	te Student Affairs Con Appeals Board rtment Graduate Rep		Fall 2010- Spring 2011 Fall 2010- Spring 2011 Fall 2010- Spring 2011 Fall 2007- Spring 2008
 REU at California Polytechnic State University Seminar Presentations "The Model for Iteration & Schroeder's Equation in Several Variables" Purdue University Geometric Analysis Seminar "Invest in Yourself- Information about Math Grad School" Purdue University Undergraduate Math 			
Seminar (by invitation) October 13, 2011 o "An Exciting and Fun Introduction to Composition Operators" Purdue University Graduate Student Colloquium October 5, 2011 o "Schroeder's Equation in Several Variables" University of Toledo Complex Analysis Seminar (by			
invitation) September 8, 2011 ∘ "A Solution to Schroeder's Equation in Several Variables" IUPUI Operator Theory Seminar (by invitation) April 20, 2011 ⋄ PURDUE UNIVERSITY STUDENT ANALYSIS SEMINAR			
 "A Riemann Surfaces of Germs, and Complete Analytic Functions" "Hyperbolic Geometry on the Disk" During Summer 2009 I gave approximately 2 talks each week covering most major topics in an introductory functional analysis course. 			
o "The Riesz Representation Theorem for C(K)" o "Nets, generalized sequences" o "REU topic: Closed Geodesics on 2-Orbifolds of Revolution" Fall 2008 Fall 2007 Fall 2004			
Conferences ♦ Presentations • "Schroeder's Equation in Several Variables" Joint Meetings of the MAA-AMS in the Several Complex			
Variables and Multivariable Operator Theory Special Session (by invitation) January 4-7, 2012 \circ "Schroeder's Equation on the Ball in \mathbb{C}^n " Southeast Analysis Meetings in honor of John Conway, University of Florida, Gainesville \diamond ATTENDANCE			
 Conference on Complex Analysis for D. Drasin and L. Sons, University of Illinois, Urbana Modern Complex Analysis and Operator Theory and Application, IV, El Escorial, Spain 6th Advanced Course in Operator Theory and Complex Analysis, University of Seville, Spain Graduate Advisors The Purdue Math Department address, found at the top of this CV, applies to all advisors. 			
Prof. Carl Cowen Thesis Advisor	Prof. Steven Bell Deptartment Chair	Dr. Rita Saerens Teaching Supervisor	Prof. Laszlo Lempert Department Head
(317)278 - 8846 $cowen@math.purdue.edu$	(765)494 - 1967 bell@math.purdue.edu	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	(765)494 - 1908 lempert@math.purdue.edu