

Jason I. Preszler

CONTACT INFORMATION	Dept. of Mathematics and Physical Sciences The College of Idaho Caldwell, ID	Voice: 208-459-5147 E-mail: jpreszler@collegeofidaho.edu Website: jpreszler.netlify.com
RESEARCH INTERESTS	Machine Learning, Bayesian Statistical Modeling, Arithmetic Statistics, Algebraic Number Theory, Arithmetic Dynamics, Computational Number Theory, History of Mathematics	
EDUCATION	University of Utah , Salt Lake City, Utah USA Ph.D., Mathematics, August 2009 Dissertation: <i>Nilpotent Orbits of Symplectic p-Adic Lie Algebras and Quadratic Forms</i> Adviser: Professor Gordan Savin Area of Study: Algebraic Number Theory, Representation Theory M.S., Mathematics, May 2005 University of Puget Sound , Tacoma, Washington USA B.S., Mathematics and Computer Science, December 2002 Major: Mathematics Minor: Computer Science Research Project: <i>The Impact of Curve Shortening on the Writhe of a Curve</i> Research Adviser: Professor Martin Jackson	
ACADEMIC POSITIONS	The College of Idaho , <i>Dept. of Math. and Phys. Sci.</i> Assistant Professor Aug. 2017 to Present James Madison University , <i>Learning Centers and Dept. of Math. and Stat.</i> Mathematics Coordinator Aug. 2015 to June 2017 University of Puget Sound , <i>Department of Mathematics and Computer Science</i> Visiting Assistant Professor July 2012 to June 2015 Visiting Instructor July 2011 to June 2012 Part-Time Instructor Jan. 2011 to May 2011 University of Washington, Tacoma , <i>Interdisciplinary Arts and Sciences</i> Part-Time Lecturer Sept. 2010 to July 2011 University of Washington, Bothell , <i>Center for University Studies and Programs</i> Part-Time Lecturer Sept. 2010 to Dec. 2010 Wingate University , <i>Department of Mathematics and Computer Science</i> Visiting Assistant Professor Aug. 2009 to July 2010 Westminster College , <i>Mathematics Department</i> Associate Instructor Summer 2009 University of Utah , <i>Department of Mathematics</i> VIGRE Graduate Fellow Spring 2009 Graduate Teaching Fellow June 2005 to Aug. 2009 Graduate Teaching Assistant Aug. 2003 to May 2005	

TEACHING
EXPERIENCE

The College of Idaho, Caldwell, ID USA

Taught Sections of:

MAT 125 - Intro. Statistics
MAT 399T - Diophantine Equations
CSC 150 - Intro Comp. Sci.
CSC 270 - Applied Databases
MAT 370 - Geometry
MAT 494 - Ind. Study, various topics

James Madison University, Harrisonburg, VA USA

Taught Sections of:

Math 105 - Quantitative Reasoning
Math 235 - Calculus I

Organized Tutor Training in:

various statistics topics
various calculus topics
general tutoring techniques

University of Puget Sound, Tacoma, WA USA

Taught multiple sections of:

Math 160 - Intro. Statistics
Math 180 - Calculus I
Math 181 - Calculus II
Math 210 - Math for Computer Science
Math 280 - Multivariate Calculus
Math 290 - Linear Algebra

Taught single section of:

Math 170 - Business Calculus
Math 321/322 - Advanced Calculus I,II
Math 420 - Number Theory
CSci 281 - Computer Architecture and Assembly Programming
CSci 361 - Algorithms
Hon 213 - Foundations of Euclidean and Non-Euclidean Geometry

University of Washington, Tacoma, Tacoma, WA USA

Taught multiple sections of:

TMATH 110 - Intro. Statistics
TMATH 124 - Calculus I
TMATH 125 - Calculus II

University of Washington, Bothell, Bothell, WA USA

BCUSP 125 - Calculus II

Wingate University, Wingate, NC USA

Taught multiple sections of:

Math 209 - Inferential Statistics
Math 120 - Calculus I
Math 116 - Quantitative Reasoning

Westminster College, Salt Lake City, Utah USA

Math 1060 - Trigonometry

TEACHING EXPERIENCE (CONTINUED)	<p>University of Utah, Salt Lake City, Utah USA</p> <p>Taught multiple sections of:</p> <p>Math 1030 - Intro. to Quantitative Reasoning</p> <p>Math 1050 - College Algebra</p> <p>Math 1090 - Business Algebra</p> <p>Math 1100 - Business Calculus</p> <p>Math 1210 - Calculus I</p> <p>Taught single section of:</p> <p>Math 1220 - Calculus II</p> <p>Math 2250 - Linear Algebra and Ordinary Differential Equations</p> <p>Math 3220 - Foundations of Analysis II</p>
SUPERVISED STUDENT PROJECTS	<p>Leo Trujillo, Fall 2017 Ind. Study, <i>Machine Learning and Emergent Reducibility</i></p> <p>Davis Shurbert, Spring 2015 Senior Thesis, <i>Computational Galois Theory</i></p> <p>Kevin Halasz, Spring 2014 Senior Thesis, <i>Probabilistic Galois Theory</i></p> <p>Amrei Oswald, Spring 2014 Ind. Study, <i>Elliptic Curves and Emergent Reducibility</i></p>
PREPRINTS AND PUBLICATIONS	<p>An Infinite Family of Quartics with Reducible Iterates Related to the Fibonacci, Lucas, and Oblong Numbers, in preparation</p> <p>An Infinite Family of Cubics with Emergent Reducibility at Depth 1, Oct. 2014, arxiv.org/abs/1410.1800, in <i>Quaestiones Mathematicae</i> Vol. 40 Iss. 1, 2017</p>
PRESENTATIONS	<p>MAPS Colloquium, College of Idaho, Oct. 2017 <i>Statistics: Side B</i></p> <p>JMM San Antonio, Jan. 2015 <i>An Infinite Family of Cubic Polynomials with Emergent Reducibility at Depth 1</i></p> <p>MAA MathFest 2014, Aug. 2014 <i>Emergent Reducibility in Polynomials Dynamics</i></p> <p>Math Colloquium, University of Puget Sound, Feb. 2014 <i>Quadratic Aberrations and their Arithmetical Applications</i></p> <p>MAA PNW Sectional, Willamette University, April 2013 <i>Cubic Emergent Reducibility</i></p> <p>Math Colloquium, University of Puget Sound, September 2011 <i>What's interesting about 15015?</i></p> <p>Math Seminar, Rose-Hulman Institute of Technology, June 2010 <i>An Introduction to Arboreal Galois Representations</i></p> <p>ScottFest, University of Puget Sound, May 2010 <i>An Aperçu of Arboreal Galois Representations</i></p> <p>University of Utah Graduate Colloquium</p> <p><i>Leopoldt's Conjecture</i>, Fall 2007</p> <p><i>Linear and Arboreal Galois Representations</i>, Fall 2006</p> <p><i>Modular Forms and Number Theory</i>, Fall 2006</p> <p><i>Introduction to L-Functions</i>, Fall 2005</p> <p><i>p-Adic Numbers</i>, Fall 2004</p> <p>Baltimore Joint Meetings</p> <p>Poster: <i>The Impact of Curve Shortening on the Writhe of a Curve</i>, Jan. 2003</p>

University of Puget Sound Math/CS Day

The Impact of Curve Shortening on the Writhe of a Curve, April 2003

Introduction to Ergodic Theory, April 2003

Introduction to Gröbner Bases, April 2002

Galois Theory, April 2001

CONFERENCE
PARTICIPATION

ASA Conference on Statistical Practice, Feb. 2018

Association for the Tutoring Profession, March 2016

San Antonio Joint Meetings, Jan. 2015

MAA MathFest 2014, Portland OR., Aug. 2014

MAA Pacific Northwest Section Meeting, Willamette University, April 2013

IDEAs of March, University of Utah, March 2013

MAA Pacific Northwest Section Meeting, University of Portland, April 2012

ScottFest, University of Puget Sound, May 2010

Park City Mathematics Institute Summer Graduate School, July 2009

MAA MathFest 2007 in San José, CA. Aug 2007

CNTA 9 Ninth annual meeting of the Canadian Number Theory Assoc. July 2006

Baltimore Joint Meetings, attended short course on public key cryptography, Jan. 2003

AMS Western Section Meeting at the University of Utah, Oct. 2002

AMS Western Section Meeting at Portland State University, June 2002

Combinatorial Potlatch at the University of Puget Sound, Feb. 2002

San Diego Joint Meetings, attended short course on Symbolic Dynamics, Jan. 2002

MAA Pacific Northwest Section meeting at Seattle Pacific University, April 2001

OUTREACH
ACTIVITIES

South Sound Circles 2013 to 2014

Assisted with planning and facilitation of math circle activities in mathematical problem solving for Tacoma area middle school teachers

Tacoma Urban League Male Involvement Program Summer 2013

Jointly planned and led mathematical problem solving component of a 6 week summer program for middle school boys with Professor David Scott

SERVICE

James Madison University,

Chair of Learning Center's Assessment Committee, Academic Year 2015-2016

Member of Learning Center's Assessment Committee, Academic Year 2016-2017

Member of Math Department's Calculus Committee, Academic Years 2015-2017

University of Puget Sound, *Department of Mathematics and Computer Science*

Supervised Math and Computer Science tutors and graders, Fall 2012 to Spring 2014

Assisted with tenure-track Computer Science faculty searches, 2013

Assisted with temporary Computer Science faculty searches, 2012

Math and Science Summer Research proposal reviewer, 2011, 2012

University of Utah, *Math Department Graduate Student Advisory Council*

Webmaster, 2007-08

Retention, Promotion, and Tenure Subcommittee, 2005-06, 2006-07

Graduate Recruitment Subcommittee, 2006-07

Graduate Colloquium Organizer, 2004-05

PROFESSIONAL
MEMBERSHIPS

American Statistical Association

TECHNICAL
SKILLS

Programming: R, C, C++, Python, Java, and others

Applications: L^AT_EX, B_IB_TE_X, PARI-GP, SAGE, RStudio, WebWork

Operating Systems: Linux