

Patrick K. Torres

Washington State University
Department of Mathematics
PO Box 643113, Neill 103
Pullman, WA 99164-3113

Email: ptorres@math.wsu.edu
Homepage: <http://www.math.wsu.edu/students/ptorres>

Citizenship

United States (U.S.)

Fields of Interest

General Interests: Matrix Theory, Partial Differential Equations, Complex Analysis, Numerical Analysis, Dynamical Systems

Current Emphasis: Theory of P-Matrices, Matrix Stability Analysis, Interval Matrices

Education

Ph.D. Mathematics, May 2018 (Expected)
Washington State University, Pullman, WA, USA

- Advisor: Dr. Michael J. Tsatsomeros

M.S. Applied Mathematics, December 2009
University of Washington, Seattle, WA, USA

B.S. Mathematics, June 2007
University of Washington, Seattle, WA, USA

A.S. (Transfer Degree), June 2004
South Seattle College, Seattle, WA, USA

Employment

Washington State University

- Mathematics Instructor/Graduate TA
August 2013 - Present
- Math 171 (Calculus I) TA Mentor
August 2014 - May 2015

South Seattle College

- Adjunct Instructor of Mathematics
January 2010 - June 2013

- RST "Ready, Set, Transfer" Coordinator for International Students
February 2013 - August 2013
- Mathematics Tutor
AANAPISI Center
November 2012 - August 2013
- Mathematics Tutor
Math and Science Tutoring Center
September 2007 - August 2011
- Math Lab Tutor
January 2004 - December 2007

Green River College

- Adjunct Instructor of Mathematics
June 2010 - March 2012

Teaching

Washington State University, 2013 - present

- MATH 103: Algebra Methods (*Spring, 2016*)
- MATH 105: Exploring Mathematics (*Fall, 2013*)
- MATH 108: Trigonometry (*Spring, 2017, Summer, 2017*)
- MATH 171: Calculus I (Lab) (*Spring, 2014, Fall, 2014, Spring, 2015*)
- MATH 171: Calculus I (Lecture) (*Summer, 2015*)
- MATH 220: Introductory Linear Algebra (*Fall, 2016*)
- MATH 315: Differential Equations (*Fall, 2015, Summer, 2016, Fall, 2017*)

South Seattle College, 2010 - 2013

- MATH 081: Basic Math Skills (*Summer, 2012, Fall, 2012, Winter, 2013*)
- MATH 083: Arithmetic (*Winter, 2012*)
- MATH 102: College Algebra (*Winter, 2010, Spring, 2010, Fall, 2010*)
- MATH 141: Precalculus I (*Winter, 2012*)
- MATH 142: Precalculus II (*Spring, 2012*)
- MATH 224: Vector Calculus (*Spring, 2011, Spring, 2012, Spring, 2013*)

Green River College, 2010 - 2012

- MATH 072: Elementary Algebra (*Fall, 2011*)
- MATH 097: Intermediate Algebra (*Fall, 2011*)
- MATH 141: Precalculus I (*Fall, 2010*)
- MATH 142: Precalculus II (*Winter, 2011*)
- MATH 147: Finite Mathematics (*Spring, 2011*)
- MATH 148: Business Calculus (*Fall, 2010*)
- MATH 151: Differential Calculus (*Summer, 2010, Winter, 2012*)
- MATH 152: Integral Calculus (*Winter, 2011*)

Publications

P. K. Torres, M. J. Tsatsomeros, *Stability and Convex Hulls of Matrix Powers*. Linear and Multilinear Algebra (To Appear)

Awards

Scholarships/Fellowships

- Three-time recipient of the Nancy J. Robertson Endowed Graduate Fellowship in Mathematics
 - * Awarded for 2014-2015, 2015-2016, and 2016-2017

Other Financial Support

- MSRI, Travel and Lodging for *Summer Graduate Workshop on Dispersive Partial Differential Equations*, June 2014
- WSU Math Dept., support to work on *Student-Centered Stem Calculus Project*, May 2014 - Aug. 2014

Conferences and Workshops

AMS Spring Western Sectional Meeting 2017
Washington State University
Pullman, WA, April 22-23, 2017

Summer Graduate Workshop on Dispersive Partial Differential Equations
Mathematical Sciences Research Institute
Berkeley, CA, June 16-27, 2014

- Poster Presentation: *Low Regularity Global Well-posedness for the Zakharov System*

2013 Washington State Community College Math Conference
Bellingham, WA, May 9-11, 2013

Sixth Annual Western Washington Community College Student Mathematics Conference
Green River College
Auburn, WA, February 25, 2012

2011 Regional Math Conference
Washington Mathematical Association of Two-Year Colleges
Stevenson, WA, April 28-30, 2011

Talks

Stability and Convex Hulls of Matrix Powers, AMS Spring Western Sectional Meeting 2017,
Washington State University, Pullman, WA, April 23, 2017

Stability and Convex Hulls of Matrix Powers, CLaN Seminar, Department of Mathematics and Statistics, Washington State University, Pullman, WA, October 17, 2016

Convex Hulls of Matrices and Stability, CLaN Seminar, Department of Mathematics and Statistics, Washington State University, Pullman, WA, November 16, 2015

Convex Sets of Nonsingular and P-Matrices, CLaN Seminar, Department of Mathematics and Statistics, Washington State University, Pullman, WA, April 6, 2015

Math Success Strategies, Collaborative Learning & Instruction Center, South Seattle College, Seattle, WA, February 9, 2012

A Computational Method in Ship Routing, Applied Mathematics Masters Symposium, Department of Applied Mathematics, University of Washington, Seattle, WA, March 5, 2009

Technology

Platforms: Mac OS X, Windows

Languages: Java

Mathematical Software: MAPLE, MATLAB, Python

Statistical Software: R

Typesetting: \LaTeX , Word

Miscellaneous: Excel, PowerPoint

Affiliations

American Mathematical Society (AMS)

Society for Industrial and Applied Mathematics (SIAM)

International Linear Algebra Society (ILAS)

Languages

English, Chamorro, some Japanese

Academic References

Mark Kot, Associate Professor, University of Washington, Department of Applied Mathematics, Box 352420, Seattle, WA 98195-2420
kot@amath.washington.edu

Nathan Kutz, Professor, University of Washington, Department of Applied Mathematics, Box 352420, Seattle, WA 98195-2420
kutz@amath.washington.edu

Heidi Lyman, Instructor and Math Department Coordinator, South Seattle College, Department of Mathematics, Mailstop: 4UNI101, Seattle, WA 98106
heidi.lyman@seattlecolleges.edu

Michael Tsatsomeris, Professor, Washington State University, Department of Mathematics and Statistics, Pullman, WA 99164-3113
tsat@wsu.edu

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