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Department of Mathematics and Computer Science
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EDUCATION

Ph. D. Mathematics, May 2009, University of Montana
Advisor: Dr. Thomas Tonev
Dissertation: Norm-Preserving Criteria for Uniform Algebra Isomorphisms
M. A. Mathematics, May 2006, University of Montana
Advisor: Dr. Adam Nyman
Professional Project: Classifying Quadratic Forms
B.S. Mathematics, May 2003, Wheaton College, magna cum laude
Illinois Initial Teaching Certificate, Mathematics, Grades 6–12

TEACHING
EXPERIENCE

Assistant Professor
Houghton College, August 2009–Present
Courses Taught: Calculus I, Linear Algebra, Probability, Real Analysis I and II, Complex Analysis, Linear Algebra II, Abstract Algebra II, Mathematical Statistics, Probability and Statistics I, Graph Theory, Mathematics for the Liberal Arts, Actuarial Independent Study
Honors Project Supervised: Variations on Multiplicative Preservers of the C -Numerical Range and Radius, Samantha Fairchild, 2015
Teaching Assistant/Predoctoral Associate
University of Montana, Fall 2004–Spring 2009
Courses Taught: Linear Algebra, Calculus I, Precalculus, Probability and Linear Math, Contemporary Mathematics
Courses Assisted: Applied Calculus, Probability and Linear Math
Middle School Teacher
Whitefield Academy, Smyrna, GA, August 2003–May 2004
Courses Taught: 7th grade math, 8th grade honors algebra

PUBLICATIONS

Camenga, K., and Yates, R. *Connecting the dots: rediscovering continuity*, Mathematics Teacher, Volume 108, Number 3, National Council of Teachers of Mathematics, October 2014, pp. 213–217.
Deaett, L., Lafuente-Rodriguez, R., Marin, J., Martin, E., Patton, L., Rasmussen, K., and Yates, R. *Trace conditions for symmetry of the numerical range*, Electronic Journal of Linear Algebra, Volume 26, International Linear Algebra Society, September 2013, pp. 591–603.
Hatori, O., Lambert, S., Luttmann, A., Miura, T., Tonev, T., and Yates, R. *Spectral Preservers in Commutative Banach Algebras*, in Function Spaces in Modern Analysis, Contemporary Mathematics, vol. 547, American Mathematical Society, Providence, RI, 2011, pp. 103–123.
Tonev, T. and Yates, R. *Norm-Linear and Norm-Additive Operators Between Uniform Algebras*, Journal of Mathematical Analysis and Applications, Volume 357, Issue 1, 1 September 2009, pp. 45–53.
Yates, R. *Classifying Quadratic Forms*, Professional Project for M.A. degree, published in the University of Montana Department of Mathematical Sciences, 2006.
Hruska, S., Johnson, R., and Yates, R. *An Alternating Series Expansion for $(\ln 2)^2$* , Pi Mu Epsilon Journal, 11:10(2004), 545–548.

PROFESSIONAL
MEMBERSHIPS

American Mathematical Society
Association of Christians in the Mathematical Sciences
Mathematical Association of America
Pi Mu Epsilon

TALKS

- The Road Best Traveled: The Mathematics of Getting There and Back Again*
 session for participants in Houghton Math and Science Day, Houghton College,
 February 3, 2015.
- The Subspace Game*
 Joint Mathematics Meetings, San Antonio, January 10, 2015.
- To Infinity and Beyond*
 session for participants in Houghton Math and Science Day, Houghton College,
 February 4, 2014.
- Helping Students Overcome Discouragement in Real Analysis*
 Joint Mathematics Meetings, Baltimore, January 13, 2014.
- Integrating Faith through Writing in Calculus I*
 Association of Christian in the Mathematical Sciences Conference, Bethel University,
 May 31, 2013.
- What If I Get Bored? How One Chapel Made Me a Mathematician.*
 Houghton Education and Life Planning Day Alternative Chapel, March 13, 2013.
- Writing in Calculus I: Is It Derivative or Integral?*
 Joint Mathematics Meetings, San Diego, January 12, 2013.
- Obama and Romney: What's Math Got to Do with It?*
 with Jill Jordan, Houghton College Homecoming, Fall 2012.
- Numerical Range: Counting Necklaces and Searching for Symmetry*
 SUNY Geneseo Mathematics Colloquium, October 13, 2011.
- An Infinity of Infinities*
 Houghton College Faculty Lecture Series, September 21, 2011.
- Classical Results from a Functional Analysis Perspective*
 Mathematics and Computer Science Department faculty research seminar,
 Houghton College, September 5 & 19, 2011.
- A Second Course in Linear Algebra: Teaching Students to Read and Speak Mathematics*
 Association of Christians in the Mathematical Sciences Conference, Westmont College,
 June 2, 2011.
- How Big Is Infinity?*
 session for participants in the American Mathematics Competition
 Houghton College, February 8, 2011.
- Helping Pre-Service Teachers Recognize Continuity in the Secondary Curriculum*
 with Kristin Camenga, Joint Mathematics Meetings, New Orleans, January 9, 2011.
- Introduction to L^AT_EX*
 Houghton College Math Club, November 15, 2011.
- The Mathematics of Voting*
 Houghton College Math Club, November 1, 2011.
- Classical Results from a Functional Analysis Perspective*
 SUNY Potsdam/Clarkson University REU Colloquium invited talk, June 10, 2010.

HONORS AND
 AWARDS

- 2010–2011 Project NExT Fellow*
 MAA and Houghton College.
- Summer Graduate Research Scholarship*
 University of Montana Department of Mathematical Sciences, 2008.
- Outstanding Presentation*
 Graduate Student and Faculty Research Conference, University of Montana, April 5, 2008.
- Graduate Student Distinguished Teaching Award*
 University of Montana Department of Mathematical Sciences, 2006–2007.

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CONFERENCES ATTENDED

- AMS/MAA Joint Mathematics Meetings*
San Antonio 2015, Baltimore 2014, San Diego 2013 & 2008, Boston 2012, New Orleans 2011,
Washington, D.C. 2009.
- Association of Christians in the Mathematical Sciences Biennial Meeting*
Bethel University, June 2013, Westmont College, June 2011, Wheaton College, May 2009.
- MAA Seaway Section Fall Meeting*
Elmira College, October 20, 2012 (with six students), SUNY Fredonia, October 2009 (with
one student).
- Conference on Undergraduate Research in Mathematics*
Pennsylvania State University, November 2011 (with six students), November 2009 (with
seven students).
- Project NExT Workshops and MAA MathFest*
Pittsburgh, PA, August 2010 and Lexington, KY, August 2011.
- American Institute of Mathematics Research Experience for Undergraduate Faculty*
Palo Alto, CA, July 18–22, 2011.
- MAA Seaway Section NExT and Spring Meeting*
Nazareth College, April 1–2, 2011 (with two students).
- St. Lawrence Valley Mathematics Symposium III*
Clarkson University, November 5–6, 2010 (with six students).
- 6th Conference on Function Spaces*
Southern Illinois University at Edwardsville, May 2010.

PROFESSIONAL ACTIVITIES

- Houghton College Science and Math Colloquium Organizer*
Fall 2014–present.
- Association of Christians in the Mathematical Sciences board member*
2013–present.
- Investigative Team for Sexual Harassment Complaints*
Fall 2014–present.
- MAA Seaway Section Liason*
Houghton College Math Department, Spring 2010–present.
- Self-Study Steering Committee for reaccreditation and co-chair of a working group*
2013–2015.
- Faculty Search Committee, Houghton College Mathematics and Computer Science Department*
2011–2012, 2013–2014, 2014–2015 (chair).
- Undergraduate Research Poster Session judge*
Joint Math Meetings, January 2011, 2012, 2013, 2014.
- Virginia Tech Regional Math Contest local organizer*
Houghton College, October 2010, 2011, 2012.
- Abstract Reviewer for the Young Mathematicians Conference*
The Ohio State University, June 2012.
- Faculty Development Committee*
Houghton College, September 2010–April 2012.
- Willing to Be Wiser mentoring program participant*
Houghton College, September 2011–April 2012.
- Math Club advisor*
Houghton College, September 2010–May 2011.
- Graduate Student Talks mentor*
MathFest, August 2011.

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OTHER
INVOLVEMENT

Worship Planning committee

Sojourners Mennonite Fellowship, Belfast, NY, Summer 2013 and May–December 2014.

Sunday School teacher

Sojourners Mennonite Fellowship, Belfast, NY, Fall 2013–Spring 2014.

Sojourners Mennonite Fellowship member

Belfast, NY, Fall 2009–present.

Belfast Toy Library volunteer

Belfast, NY, Spring 2011–Spring 2013.

Healthy Male–Female Relationships Panel member

Rothenbuler men’s dorm, Houghton College, Spring 2011.

Allegany Cooperative Market phone surveyor

Houghton, NY, February 2011.