http://www.houghton.edu/rebekah-yates Department of Mathematics Houghton University 1 Willard Ave. Houghton, NY 14744 rebekah.yates@houghton.edu office: 585–567–9288 other: 585–678–1312

Education	<ul> <li>Ph. D. Mathematics, May 2009, University of Montana Advisor: Dr. Thomas Tonev Dissertation: Norm-Preserving Criteria for Uniform Algebra Isomorphisms</li> <li>M. A. Mathematics, May 2006, University of Montana Advisor: Dr. Adam Nyman Professional Project: Classifying Quadratic Forms</li> <li>B.S. Mathematics, May 2003, Wheaton College, magna cum laude Illinois Initial Teaching Certificate, Mathematics, Grades 6–12</li> </ul>
TEACHING EXPERIENCE	<ul> <li>Houghton College/University</li> <li>Professor, 2023–present</li> <li>Associate Professor, 2016–2023</li> <li>Mathematics Department Chair, 2015–2022</li> <li>Assistant Professor, 2009–2016</li> <li>Courses Taught: Calculus I with Precalculus A, Calculus and Problem Solving, Calculus I and II, Linear Algebra I and II, Introduction to Proofs, Real Analysis I and II, Complex Analysis, Abstract Algebra II, Probability and Statistics I, Graph Theory, Mathematics for the Liberal Arts, Mathematics Research Seminar, Reason and Abstraction: The Infinite, Reason and Abstraction: Mathematics for Human Flourishing, Reason and Abstraction: Origami and Math, Reason and Abstraction: Math of Games and Puzzles, Introduction to Category Theory, Game Theory, Mathematics of Origami, Senior Seminar, various independent studies.</li> <li>Honors Projects Supervised</li> <li>Numerical Range over Finite Fields (Timothy Lund, 2023)</li> <li>Exploring Numerical Range over Finite Fields (Amy Huddell, 2020)</li> <li>Variations on Multiplicative Preservers of the C-Numerical Range and Radius (Samantha Fairchild, 2015)</li> </ul>
	<ul> <li>University of Montana Teaching Assistant/Predoctoral Associate, 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 </li> <li>Whitefield Academy, Smyrna, GA Middle School Teacher, August 2003–May 2004 Courses Taught: 7th grade math, 8th grade honors algebra</li></ul>
PUBLICATIONS	<ul> <li>Camenga, K. A., Rault, P. X., Spitkovsky, I. M., and Yates, R. B. J. The Gau-Wu Number for 4 × 4 and Select Arrowhead Matrices, Linear Algebra and Its Applications, Volume 644, Elsevier, 1 July 2022, pp. 192–218.</li> <li>Camenga, K. A., Collins, B., Hoefer, G., Quezada, J., Rault, P. X., Willson, J., and Yates, R. B. J. On the geometry of numerical ranges over finite fields, Linear Algebra and Its Applications, Volume 628, Elsevier, 1 November 2021, pp. 182–201.</li> </ul>
	Camenga, K. A., Deaett, L., Rault, P. X., Sendova, T., Spitkovsky, I. M., and Yates, R. B. J. Singularities of Base Polynomials and Gau–Wu Numbers, Linear Algebra and Its Applications, Volume 581, Elsevier, 15 November 2019, pp. 112–127.

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Publications Continued	Camenga, K. A., and Yates, R. B. J. <i>The Real Numbers: Not All Decimals Are Fractions</i> , Frontiers for Young Minds, 8:4.
	Camenga, K., and Yates, R. <i>Connecting the dots: rediscovering continuity</i> , 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. <i>Trace conditions for symmetry of the numerical range</i> , Electronic Journal of Linear Algebra, Volume 26, International Linear Algebra Society, September 2013, pp. 591–603.
	<ul> <li>Hatori, O., Lambert, S., Luttman, A., Miura, T., Tonev, T., and Yates, R. Spectral Preservers in Commutative Banach Algebras, in Function Spaces in Modern Analysis, Contemporary Mathe- matics, vol. 547, American Mathematical Society, Providence, RI, 2011, pp. 103–123.</li> <li>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.</li> </ul>
	Yates, R. <i>Classifying Quadratic Forms</i> , 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.
Talks	<ul> <li>Derivative or Integral? Connecting Mathematics with Faith, Learning, and Life in a Senior Seminar Course</li> <li>The Kuyers Institute/International Network for Christian Higher Education/De Vries</li> <li>Institute 2024 Conference on Integrated Education in a Reductionist Age, Calvin University, October 11, 2024</li> </ul>
	Every valley shall be raised up, and every mountain made low, and the rough placesa crane? Association of Christians in the Mathematical Sciences Conference, Dordt University, May 30, 2024
	The Dot and the Line: A Romance in Finite Field Numerical Ranges Joint Mathematics Meetings, San Francisco, CA, January 3, 2024
	Integrating Math and Faith: Highlights Wheaton College Mathematics and Computer Science Department Chapel, November 8, 2023
	The Dot and the Line: A Romance in Finite Field Numerical Ranges Fall Meeting of the Math Division of the Associated Colleges of the Chicago Area November 7, 2023 (invited plenary speaker)
	Two Person Games Not Worth Playing (and Some That Might Be) Fall Meeting of the Math Division of the Associated Colleges of the Chicago Area, November 7, 2023 (invited plenary speaker)
	Math at the Ballot Box Houghton University Math Day interactive session, October 26, 2023
	Infinite Snowflakes Houghton University Math Day interactive session, October 27, 2022
	All Natural $\pi$ Calvin College Mathematics Colloquium, April 29, 2021.
	Oh the Books You Can Read! Joint Mathematics Meetings, Denver, CO, January 16, 2020.
	Making Stuff Up: A Model for Undergraduate Research in Mathematics, Association of Christians in the Mathematical Sciences Conference, Indiana Wesleyan University, May 30, 2019.
	All Natural $\pi$ MAA Seaway Section Banquet Address, St. John Fisher College, April 5, 2019.

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Talks Continued	A Century at Home on the (Numerical) Range Houghton College Science and Math Colloquium, February 26, 2019.
	Taxis, Trains, and Teleportation: Circling the Value of $\pi$ , Math and Science Day interactive session, Houghton College, February 6, 2019.
	Taxis, Trains, and Teleportation: Circling the Value of $\pi$ Juniata College Mathematics Colloquium, November 1, 2018.
	A Century at Home on the (Numerical) Range: Historical Highlights and Current Research University of Nebraska at Omaha Mathematics Colloquium, October 26, 2018.
	Incarnate in the Ordinary Houghton College Baccalaureate, May 11, 2018.
	Knowing What You Know Joint Mathematics Meetings, San Diego, January 12, 2018.
	On Beyond Calculus: A Day for Community Outreach Association of Christians in the Mathematical Sciences Conference, Charleston Southern University, June 2, 2017.
	There Are 10 Kinds of People: Those Who Come to This Session and Those Who Don't Math and Science Day interactive session, Houghton College, February 7, 2017.
	The Mathematics of Voting Math Discovery Day interactive session, Houghton College, April 9, 2016.
	As the Crow Flies and the Taxi Drives Math and Science Day interactive session, Houghton College, February 2, 2016.
	On Beyond Calculus Joint Mathematics Meetings, Seattle, January 9, 2016.
	The Road Best Traveled: The Mathematics of Getting There and Back Again Math and Science Day interactive session, Houghton College, February 2015 & 2018.
	The Subspace Game Joint Mathematics Meetings, San Antonio, January 10, 2015.
	To Infinity and Beyond Math and Science Day interactive session, Houghton College, February 2011 & 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.
	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.
	Helping Pre-Service Teachers Recognize Continuity in the Secondary Curriculum with Kristin Camenga, Joint Mathematics Meetings, New Orleans, January 9, 2011.

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Professional Activities	Problems, Resources, and Issues in Mathematics Undergraduate Studies (PRIMUS) editorial board August 2017–August 2020.
	Proceedings of the Association of Christians in the Mathematical Sciences reviewer August 2017–present.
	Association of Christians in the Mathematical Sciences board member 2013–June 2021, secretary May 2015–May 2017.
	MAA Seaway Section Department Liaison Spring 2010–present.
	Undergraduate Research Poster Session judge Joint Math Meetings, January 2011, 2012, 2013, 2014.
	Abstract Reviewer for the Young Mathematicians Conference The Ohio State University, June 2012.
	Graduate Student Talks mentor MathFest, August 2011.
Houghton Service	Admission Committee Fall 2024–present.
	re:SET Task Force on student evaluations and evaluating teaching and service January 2024–present.
	Peer Reviewer for mid- and post-tenure reviews Fall 2022, Spring 2024, Fall 2024, Spring 2025
	Rank and Tenure Committee Fall 2021–Spring 2024.
	Faculty Concerns Committee Fall 2017–Spring 2019.
	Houghton College Science and Math Colloquium Organizer Fall 2014–Spring 2018.
	Investigative Team for Sexual Harassment Complaints Fall 2014–Spring 2019.
	Self-Study Steering Committee for reaccreditation and co-chair of a working group 2013–2015.
	Faculty Search Committees, Houghton College 2011–2012 (math), 2013–2014 (math), 2014–2015 (math and applied math; chair of applied math), 2016–2017 (philosophy).
	Co-PI for application for NSF Robert Noyce Teacher Scholarship February 2014. Application was not funded.
	Virginia Tech Regional Math Contest local organizer Houghton College, October 2010, 2011, 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.

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Honors and Awards	Initiative for Christ-Centered Teaching and Scholarship Fellow Houghton University, AY 2024–2025
	Excellence in Teaching Award Houghton University, March 2024
	2010–2011 Project NExT Fellow MAA and Houghton College.
	Graduate Student Distinguished Teaching Award University of Montana Department of Mathematical Sciences, 2006–2007.
GRANTS	American Institute of Mathematics Research Experience for Undergraduate Faculty Continuation Grant
	American Institute of Mathematics Research Experience for Undergraduate Faculty Continuation Grant Son Lose CA August 7, 11, 2017
Conferences Attended	Advocating for Students of Color: There's More You Can Do virtual, Fall 2020.
	Math Chairs for Racial Justice virtual reading group, Summer 2020.
	Mastery Based Grading Conference virtual, June 5–6, 2020.
	Inquiry-Based Learning Workshop Nazareth College, Rochester, NY, July 18–21, 2017.
	<ul> <li>AMS/MAA Joint Mathematics Meetings</li> <li>San Francisco 2024, Denver 2020, Seattle 2016, San Antonio 2015, Baltimore 2014 &amp; 2019,</li> <li>San Diego 2018, 2013, &amp; 2008, Boston 2012, New Orleans 2011, Washington, D.C. 2009.</li> </ul>
	Association of Christians in the Mathematical Sciences Biennial Meeting Indiana Wesleyan University 2019, Charleston Southern University 2017, Redeemer University College 2015, Bethel University 2013, Westmont College 2011, Wheaton College 2009.
	MAA Seaway Section Meeting St. John Fisher College Spring 2019, SUNY Oswego Spring 2017, Rochester Institute of Technology Fall 2016, Elmira College Fall 2012, Nazareth College Spring 2011, SUNY Fredonia Fall 2009.
	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.
	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.