KAYLA K. BLYMAN, PH.D.

January 2023

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ACADEMIC POSITIONS HELD

Saint Martin's University, Lacey, Washington.

2020 -Assistant Professor of Mathematics.

United States Military Academy, West Point, New York.

2017 - 2020 Assistant Professor of Mathematics.

Berea College, Berea, Kentucky.

2015 - 2016 Adjunct Lecturer of Mathematics.

Midway College, Midway, Kentucky.

2015 Adjunct Instructor of Mathematics.

University of Kentucky, Lexington, Kentucky.

2014 - 2015 STEM Education Graduate Assistant. Mathematics Research Assistant. 2014 Mathematics Teaching Assistant.

2009 - 2014

EDUCATION

2009 - 2017 University of Kentucky, Lexington, Kentucky.

Ph.D. in STEM Education - Mathematics Education, May 2017.

Advisor: Margaret J. Mohr-Schroeder, Ph.D. M.A. in Mathematics, December 2011.

Advisor: Carl Lee, Ph.D.

2005 - 2009 Messiah College, Grantham, Pennsylvania.

B.A. in Mathematics, May 2009.

Departmental Honors. Magna Cum Laude.

2008 University of Oxford, Oxford, United Kingdom.

Visiting Student.

2007 Middle East Studies Program, Cairo, Egypt.

HONORS AND AWARDS

2020 Dean's Award for Service and Cadet Development Excellence

United States Military Academy, West Point, NY.

Brigadier General (retired) Jack M. Pollin Award for Faculty Excellence

United States Military Academy, West Point, NY.

Department of the Army Civilian Service Commendation Medal

United States Military Academy, West Point, NY.

Department of the Army Certificate of Appreciation

United States Military Academy, West Point, NY.

2009 Daniel R. Reedy Quality Achievement Fellowship

University of Kentucky, Lexington, KY.

TEACHING EXPERIENCE

SAINT MARTIN'S UNIVERSITY

Combinatorics. (Fall 2022)

Independent Study - One Student

Differential Equations. (Summer 2021 & 2022, Spring 2023)

Summer 2022 Independent Study - Three Students

Introduction to Actuarial Science. (Spring 2022)

Independent Study - One Student

Introduction to Advanced Mathematics. (Fall 2020, 2021, & 2022)

Introduction to Statistics. (Fall 2021 - Spring 2022)

Mathematical Modeling. (Spring 2021 & 2022)

Mathematics for Computer Science. (Spring 2022 & 2023)

Mathematics in Modern Society. (Fall 2020 – Fall 2021, Fall 2022)

Probability and Statistics. (Fall 2020 - Summer 2021 & Summer 2022 - Spring 2023)

Summers 2021 & 2022 with North China Institute of Aerospace Engineering Summer 2022 Independent Study - One Student

UNITED STATES MILITARY ACADEMY - WEST POINT

Multivariable Calculus & Introduction to Differential Equations. (Fall 2019)

Mathematical Modeling and Introduction to Calculus. (Fall 2017 - Fall 2019)

This is freshman-level introduction to discrete and continuous mathematical modeling.

Discrete Mathematics. (Spring 2019 & 2020)

Linear Algebra. (Fall 2018)

Advanced Engineering Mathematics. (Spring 2018)

This is an introduction to linear algebra and partial differential equations.

BEREA COLLEGE

College Algebra. (Fall 2015 & 2016)

Elementary Algebra I. (Fall 2016)

Introduction to Statistics. (Fall 2016)

Trigonometry. (Fall 2015)

MIDWAY COLLEGE

Calculus II. (Summer 2015, Online)

Intermediate Algebra. (Spring 2015, Panamanian ELL Students)

UNIVERSITY OF KENTUCKY

Elementary Calculus and Its Applications. (Summer 2014)

Math for Elementary School Teachers. (Fall 2011 & 2013)

Geometry for Middle School Teachers. (Fall 2012)

College Algebra. (Summer 2010, CARES FSP; Fall 2010, CARES; & Summer 2012, Online)

(CARES) The Center for Academic Resources and Enrichment Services is a division of the Office for Institutional Diversity that strives to aid in increasing the retention and graduation rates of underrepresented students at the University of Kentucky.

CARES (FSP) Freshman Summer Program is a six week residential enrichment program offered through CARES that is designed to orient underrepresented first year students to academic and student life at the University of Kentucky.

Problem Solving for Elementary School Teachers. (Spring 2012)

Introduction to Contemporary Mathematics. (Spring 2011 & Summer 2011, CARES FSP)

AUXILIARY TEACHING EXPERIENCE

UNIVERSITY OF KENTUCKY - MATHEMATICS

Curriculum Design FastTrack to Calculus. (Summer 2012)

& Primary Instructor FastTrack is a residential academic program designed to prepare

first-year students for rigorous undergraduate course work before the start of the fall semester at the University of Kentucky.

Mathematics for the Area Health Education Center's Health Careers

Summer Program for High School Juniors. (Summers 2011, 2012,

& 2013)

Recitation Leader Finite Mathematics and Its Applications. (Spring 2013)

College Algebra. (Fall 2010, CARES)

Calculus II. (Spring 2010) Calculus I. (Fall 2009)

Tutor Mathematics Exam Review Sessions. (Spring 2010 - Fall 2012)

Undergraduate Mathematics Help Room. (Fall 2009 - Spring 2013)

UNIVERSITY OF KENTUCKY - MATHEMATICS EDUCATION GRADUATE COURSES

Graduate Assistant Mathematics Student Teaching in the Secondary School. (Spring 2015)

Foundations of Pedagogical Theory in STEM Education. (Fall 2014)

University Supervisor Secondary Mathematics Student Teaching. (Spring 2015)

PEER-REVIEWED PUBLICATIONS

Adams, B., Arney, K., Blyman, K., Bromberg, L., & del Cuadro-Zimmerman, D. (Manuscript in Progress). Positive impacts of discovery learning assessments.

Arney, K., Blyman, K., Bromberg, L., Cepeda, J., Harness, D., & Lynch, S. (2021). Developing the cutting edge of assessment techniques: Discovery learning assessments. In M. G. Ender, R., A. Kimball, R. M. Sonheimer, & J. C. Bruhl (Eds.), *Teaching and Learning the West Point Way* (pp. 197-210). Routledge.

Arney, K., Blyman, K., Cepeda, J., Lynch, S., Prokos, M., & Warnke, S. (2020). Going beyond promoting: Preparing students to creatively solve future problems. *Journal of Humanistic Mathematics*, 10(2), 348-376. https://doi.org/10.5642/jhummath.202002.16

Barnard, K., Blyman, K., & Lee, C. W. (2022). Guiding students to discover counting formulas - With a modeling twist. *The UMAP Journal*, 43(2), 109-129.

Blyman, K., Arney, K., Adams, B., & Hudson, T. (2020). Does your course effectively promote creativity?: Introducing the mathematical problem solving creativity rubric. *Journal of Humanistic Mathematics*, 10(2), 157-193. https://doi.org/10.5642/jhummath.202002.09

Blyman, K. & Meyer, M. (2021). Mathematical communication games: Telestrations in the class-room. In M. Capaldi (Ed.), *Teaching Mathematics Through Games* (pp. 113-124). MAA Press.

Blyman, K. & Monday, C. (2018). Finite mathematics students' use of counting techniques in probability applications. Proceedings of the Annual Conference on Research in Undergraduate Mathematics Education (RUME).

Mohr-Schroeder, M. J., Cavalcanti, M., & **Blyman, K.** (2015). STEM education: Understanding the changing landscape. In A. Sahin (Ed.), *A practice-based model of STEM teaching: STEM students on the stage (SOS)* (pp. 3-14). Boston, MA: Sense Publishers.

OTHER PUBLICATIONS

Baldwin, A., Blyman, K., D'Andre, J., Farlow, K., Guinn, M., Pinzon, K., & Wang, J. (2021). Judges' commentary: Re-optimizing food systems. *The UMAP Journal*, 42(3), 293-308.

Baldwin, A., Blyman, K., D'Andre, J., Farlow, K., Hartman, M. J., Meyer, M., Murad, K., Picciuto, J., & Szabo, C. (2022). Judges' commentary: Forestry for carbon sequestration. The UMAP Journal, 43(3), TBD.

Beecher, A. & **Blyman**, **K.** (2022). ICM modeling forum: Results of the 2022 interdisciplinary contest in modeling. The UMAP Journal, 43(3), TBD.

- **Blyman, K.** (TBD). Book Review: Modeling with Mathematics: Authentic Problem Solving in Middle School. *The UMAP Journal*.
- **Blyman, K.** (2022). Book Review: Modeling and Data Analysis: An Introduction with Environmental Applications. *The UMAP Journal*, 43(2), 179-182.
- Blyman, K. (2021). Editorial: Teaching modeling: Tell us how! The UMAP Journal, 42(1), 7-8.
- Blyman, K., Farlow, K., Guinn, M., Pinzon, K., & Wooster, R. (2020). Judges' commentary: Drowning in plastic. *The UMAP Journal*, 41(3), 285-300.

MEDIA COVERAGE

- Brunson, C. (May 10, 2022). Teaching Mathematics Through Games. New Books Network Podcast, https://newbooksnetwork.com/teaching-mathematics-through-games. Timestamp 18:00.
- Hershberger, S. (February 10, 2021). Creating a digital library for math outreach. *American Mathematical Society*, http://www.ams.org/news?news.id=6600.

GRANTS AND FUNDING FOR RESEARCH

FUNDED

- Researcher Faculty Development Committee Funding. Creative Presentations of (Advanced) Mathematics. \$1,734. Saint Martin's University. (Awarded 2021).
- Researcher Academy Research Council Funding. Developing and Presenting Discovery Learning Assessments. \$2,308. United States Military Academy. (Awarded 2017).

NOT FUNDED

- **Co-PI** National Science Foundation (IUSE). *Discovery Learning Assessments*. \$299,700. Appalachian State University with partner United States Military Academy. (Applied 2018)
- Senior Personnel National Science Foundation (IUSE). Transforming the Assessment Paradigm in Undergraduate STEM Education. \$1,997,199. CUNY New York City College of Technology with partner United States Military Academy. (Applied 2018)

RESEARCH EXPERIENCE

- Research Assistant National Science Foundation (EPSCoR Track 3). Utilizing STEM camps and STEM clubs to increase interest in STEM fields among females and students of color. University of Kentucky. (Summers 2014, 2015, & 2016)
- Consultant National Science Foundation (DRK-12). Geometry Assessments for Secondary Teachers (GAST). University of Louisville with partners University of Kentucky and Alpine Testing Solutions. (Summer 2014, Summer 2013).
- **Research Assistant** National Science Foundation (DRK-12). Geometry Assessments for Secondary Teachers (GAST). University of Louisville with partners University of Kentucky and Alpine Testing Solutions. (Spring 2014).

PRESENTATIONS - INVITED

- Beecher, A. & **Blyman, K.** (2023). ICM director's overview of the Interdisciplinary Contest in Modeling: Engaging students and faculty. Presented at the Joint Mathematics Meetings, Boston, MA.
- Beecher, A. & **Blyman**, **K.** (2022). ICM director's overview of the Interdisciplinary Contest in Modeling: Engaging students and faculty. Presented at the Joint Mathematics Meetings, Virtual Conference.
- **Blyman, K.** (2021). Creating alternate assessments: Discovery learning assessments. Presented virtually in the Mathematical Association of America's Committee on Technologies in Mathematics Education's Remote Instruction and Assessment of Mathematics Webinar.
- **Blyman, K.** (2021). Graph coloring. Presented virtually at the Ramapo College of New Jersey, Mahwah, NJ.

- **Blyman, K.** (2021). Let's go on a math adventure! Presented virtually at the Ramapo College of New Jersey, Mahwah, NJ.
- **Blyman, K.** (2021). Painting with robots, playing with bubbles, and introducing mathematical modeling A virtual potpourri of ideas for outreach from my outreach library. Presented at the Joint Mathematics Meetings, Virtual Conference.
- Blyman, K. (2016). What is graduate school?. Presented at Berea College, Berea, KY.
- **Blyman, K.** (2015). Roads to counting and probability and the connections between. Presented at the Berea College Mathematics Colloquium, Berea, KY.
- **Blyman, K.** (2011). Grid graphs, gorenstein polytopes, and domino stackings. Presented at the University of Kentucky Discrete Combinatorics, Algebra, Topology, and Statistics Seminar, Lexington, KY.
- Blyman, K. (2011 & 2010). How to tutor college students in mathematics. CARES Tutor Training, University of Kentucky, Lexington, KY.
- **Blyman, K.** (2009). Schur's theorem. Presented at the Messiah College Student Scholars' Expo, Grantham, PA.
- **Blyman, K.** (2008). An introduction to graph theory. Presented at Messiah College, Grantham, PA.
- **Blyman, K.** & Beecher, A. (2023). MCM/ICM problem immersion Let's model! Presented at the Joint Mathematics Meetings, Boston, MA.
- **Blyman, K.** & Beecher, A. (2022). MCM/ICM problem immersion Let's model! Presented at the Joint Mathematics Meetings, Virtual Conference.

PRESENTATIONS - WORKSHOPS

- Adams, B., **Blyman, K.**, & Wattenberg, F. (2019). Drones, climate science, hot cars, personal and public health policy and math. Mini-course presented at the International Conference on Technology in Collegiate Mathematics, Scottsdale, AZ.
- Arney, K., Blyman, K., Bromberg, L., Lynch, S., Warnke, S., & Wattenberg, F. (2019). Assessment: From a silent killer of learning to an active driver of deeper learning. Mini-course presented at the International Conference on Technology in Collegiate Mathematics, Scottsdale, AZ.
- **Blyman, K.** (2016). The game of nim. Presented at the University of Kentucky High School Mathematics Day for Women, Lexington, KY.
- Isenhour, M., Teague, D., & **Blyman, K.** (2022). COMAP's Certificate in Modeling (CiM) program for educators. Workshop presented at MAA MathFest, Philadelphia, PA.
- Isenhour, M., Snook, K., **Blyman, K.**, & Teague, D. (2022). An introduction to COMAP's Certificate in Modeling (CiM) program for educators. Workshop presented at the Joint Mathematics Meetings, Virtual Conference.
- Schroeder, D. C., Jackson, C., Mohr-Schroeder, M. J., Powers, L. B., Albers, S., Poe, K., Roberts, O. T., & Blyman, K., & Cavalcanti, M. (2015). Tapping the potential of struggling learners of mathematics: Instructional strategies. Gallery workshop presented at the annual meeting of the National Council of Teachers of Mathematics, Boston, MA.
- Snook, K. & **Blyman, K.** (2021). Introduction to modeling: Let's get started. Presented virtually at the Interservice/Industry Training, Simulation and Education Conference STEM (IITSEC STEM) with stemCONNECT.
- Wattenberg, F., **Blyman, K.**, Bromberg, L., Harness, D., Arney, K., Wohlberg, S., Warnke, S., & del Cuadro-Zimmerman, D. (2018). Assessment: From a silent killer of learning to an active booster of better learning. Mini-course presented at the International Conference on Technology in Collegiate Mathematics, Washington, DC.

PRESENTATIONS - CONTRIBUTED

Albers, S., Poe, K., Blyman, K., Cavalcanti, M., Roberts, T., Schroeder, D. C., & Mohr-Schroeder, M. J. (2015). Using informal learning environments to prepare preservice teachers to work with struggling mathematics learners. Presented at the annual Kentucky Mathematics Educators Development Conference, Richmond, KY.

- Arney, K., Blyman, K., Bromberg, L., Lynch, S., Warnke, S., & Wattenberg, F. (2019). Assessment: From a silent killer of learning to an active driver of deeper learning. Mini-course presented at the International Conference on Technology in Collegiate Mathematics, Scottsdale, AZ.
- Barnard, K. & **Blyman**, K. (2023). Counting your chickens before they've hatched: Inquiry and modeling in combinatorics. Presented at the Joint Mathematics Meetings, Boston, MA.
- **Blyman, K.** (2019). Opioid addiction: Modeling the opioid epidemic in the United States. Presented at the International Conference on Technology in Collegiate Mathematics, Scottsdale, AZ.
- Blyman, K. (2019). Exploring applications of linear algebra through low-stakes discovery learning assessments. Presented at the Joint Mathematics Meetings, Baltimore, MD.
- **Blyman, K.**, Adams, B., Arney, K., Bromberg, L., & del Cuadro-Zimmerman, D. (2019). Positive impacts of discovery learning assessments. Presented at the Joint Mathematics Meetings, Baltimore, MD.
- **Blyman, K.** & Arney, K. (2020). Developing and evaluating a course that prepares students as creative problem solvers. Presented at the Joint Mathematics Meetings, Denver, CO.
- **Blyman, K.** & Arney, K. (2018). An alternate assessment technique Evaluated. Presented at the Joint Mathematics Meetings, San Diego, CA.
- **Blyman, K.**, Arney, K., & Bromberg, L. (2019). An experiment in assessing creativity and critical thinking in a freshman-level mathematical modeling course. Presented at the Joint Mathematics Meetings, Baltimore, MD.
- **Blyman, K.**, Arney, K., & Warnke, S. (2019). Assessing modeling meaningfully in a freshmen-level mathematical modeling course through discovery learning assessments. Presented at the Joint Mathematics Meetings, Baltimore, MD.
- **Blyman, K.** & Friesen, M. (2022). Not your standard first population modeling project. Presented at MAA MathFest, Philadelphia, PA.
- **Blyman, K.** & Lynch, S. (2019). Turtle power: Longitudinal modeling projects in the undergraduate classroom. Presented at the International Conference on Technology in Collegiate Mathematics, Scottsdale, AZ.
- **Blyman, K.** & Meyer, M. (2019). Gaming formative assessment: Telestrations in the mathematics classroom. Presented at the Joint Mathematics Meetings, Baltimore, MD.
- **Blyman, K.** & Monday, C. (2018). Finite mathematics students' use of counting techniques in probability applications. Presented at the Annual Conference on Research on Undergraduate Mathematics Education, San Diego, CA.
- Bromberg, L., **Blyman, K.**, & Arney, K. (2018). Transforming mathematics assessments to drive better learning. Presented at MAA MathFest, Denver, CO.
- Corson, W., Galbreath, D., Adams, B., & **Blyman**, K. (2019). Written versus digital feedback; Which improves student learning?. Presented at the Joint Mathematics Meetings, Baltimore, MD
- del Cuadro-Zimmerman, D. & **Blyman**, K. (2018). Examining exams, evaluating evaluations: An alternate approach assessed. Presented at the International Conference on Technology in Collegiate Mathematics, Washington, DC.
- Jackson, C., Mohr-Schroeder, M. J., Schroeder, D. C., Roberts, T., Blyman, K., & Cavalcanti, M. (2014). Preparing prospective teachers to work with students who struggle in mathematics. Presented at the annual meeting of the School Science and Mathematics Association, Jacksonville, FL.
- Mills, G., Gann, C., & **Blyman**, **K.** (2022). Promoting equity and access with mathematical modeling. Presented at the annual meeting & exposition of the National Council of Teachers of Mathematics, Los Angeles, CA.
- Mohr-Schroeder, M. J., Jackson, C., Schroeder, D. C., Cavalcanti, M., **Blyman, K.**, Roberts, O. T., Lemmon, M., Poe, K., Albers, S., & Williams, M. (2015). Bolstering preservice teachers' STEM literacy via informal learning experiences. Paper presented at the annual meeting of the School Science and Mathematics Association, Oklahoma City, OK.
- Mohr-Schroeder, M. J., Peters, S., Ronau, R., Lee, C. W., Bush, W., & Blyman, K. (2015). What knowledge do secondary geometry teachers need to be effective? Paper presented at the annual meeting of the National Council of Teachers of Mathematics, Boston, MA.

- Schroeder, D. C., Jackson, C., Mohr-Schroeder, M. J., **Blyman, K.**, Roberts, T., & Cavalcanti, M. (2014). Motivating and inspiring middle level students' interest in STEM via STEM camp. Presented at the annual meeting of the School Science and Mathematics Association, Jacksonville, FL.
- Walsh, T., Webb, M., Evans, L., & **Blyman**, K. (2020). Achieving a baseline for preparation in the mathematics classroom. Presented at the Joint Mathematics Meetings, Denver, CO.

POSTERS

- Arney, K., Blyman, K., Bonanome, M., Parker, K. A., Wattenberg, F., & Young, E. S. (2020). Using do it yourself interactive simulations, assessments that drive learning, and the space program as a theme in first two year college mathematics classes. Presented at the MAA Poster Session: Projects Supported by the NSF Division of Undergraduate Education. Joint Mathematics Meetings, Denver, CO.
- Arney, K., Blyman, K., Bonanome, M., Bromberg, L., Parker, K. A., Wattenberg, F., & Young, E. S. (2019). Assessment: Transforming the silent killer of learning to an active booster of learning Discovery learning assessments and WeBWork. Presented at the MAA Poster Session: Projects Supported by the NSF Division of Undergraduate Education. Joint Mathematics Meetings, Baltimore, MD.
- Arney, K., Blyman, K., Bromberg, L., del Cuadro-Zimmerman, D., Wattenberg, F., & Young, E. S. (2018). Assessment: Transforming the silent killer of learning to an active booster of learning Discovery learning assessments. Presented at the MAA Poster Session: Projects Supported by the NSF Division of Undergraduate Education. Joint Mathematics Meetings, San Diego, CA.
- **Blyman, K.** (2009). James Stirling: His life and work. Presented at the Messiah College Student Scholars' Expo, Grantham, PA.
- **Blyman, K.**, Arney, K., del Cuadro-Zimmerman, D., & Bromberg, L. (2018). Examining exams, evaluating evaluations: An alternate approach assessed. Presented at the Annual Conference on Research on Undergraduate Mathematics Education, San Diego, CA.
- **Blyman, K.**, Bromberg, L., & Arney, K. (2018). How (NOT) to make discovery learning assessments. Presented at MAA MathFest, Denver, CO.

INTERNAL SERVICE

SAINT MARTIN'S UNIVERSITY

2022 -	Advisor Math Club - Student Organization
	Mathematics Representative Committee for the Utilization of Ernsdorff
	Interviewer Benedictine Scholars' Day
2022	Tenure & Promotion Panelist New Faculty Orientation
	Panelist Biology Club's CVs and Cover Letters Meeting
	Table Host Internship Center's Etiquette Dinner
2021 -	Member at Large University Retention Committee
	CAS Representative Faculty Development Committee
2021	Panelist Math Club's Graduate School Night Meeting
	Researcher & Presenter Internal Report on Impacts of Remedial Mathematics
	Courses on Degree Completion & Retention

UNITED STATES MILITARY ACADEMY AT WEST POINT

2020	Course Director Discrete Mathematics
2019 - 2020	Associate Editor Core Mathematics Book
2018 - 2020	Observer for Faculty Development Workshop Practice Classes
	Officer Representative Army West Point Women's Tennis Team
2017 - 2020	Committee Member Center for Faculty Development
	Writer, Grader, and Administrator Mathematics Problem of the Week

2018 - 2019	Team Leader Mathematical Modeling and Introduction to Calculus
	Mathematics Experience Session Leader Summer Leaders Experience
	Discussion Leader Faculty Development Workshop
	Committee Member Polin Teaching Award Selection Committee
2017 - 2018	Mentor and Advisor Mathematics Competitions

UNIVERSITY OF KENTUCKY SERVICE STEM EDUCATION DEPARTMENT

2015	Interviewer of Applicants to the STEM-PLUS Certification Program for Secondary
	Mathematics Education.
2013 - 2015	Interviewer of Applicants to the Master of Arts in Secondary Mathematics Education
	with Initial Certification (MIC - Mathematics) Program.
2014	Assistant Program Chair of the MIC - Mathematics and STEM-PLUS Certification
	Programs.

Interviewer of Applicants to the Elementary Teacher Education Program.

UNIVERSITY OF KENTUCKY SERVICE MATHEMATICS DEPARTMENT

2013 - 2014	Vice President of the Student Chapter of the Association for Women in Mathematics.
2011 - 2013	President and Founder of the Student Chapter of the Association for Women in
	Mathematics.
2012	President of Mathematics Graduate Student Council.
	Co-Coordinator of Mathematics Graduate Student Colloquium.
2011 - 2012	Vice-President of Mathematics Graduate Student Council.
2010 - 2012	Department Representative to the Graduate Student Congress.
2011	Invited Panelist at Graduate Course on Teaching College Mathematics.
2010 - 2011	Committee Member for the Noetherian Ring.

EXTERNAL SERVICE

PROFESSIONAL LEADERSHIP POSITIONS

2022 -	Member of the MAA's National Committee on Technologies in Mathematics Education
	(CTME).

- 2021 Associate Editor of the Teaching Modeling Department of The UMAP Journal.
- 2021 2022 **Lead Developer** for the Introduction to Modeling Course for the Consortium for Mathematics and Its Applications (COMAP)'s Certificate in Modeling (CiM) Program.

CONFERENCE SESSIONS COORDINATED

- Beecher, A., Horton, S., & Blyman, K. (2023). COMAP's modeling contests: engaging students and faculty in mathematical modeling. Special Session at the Joint Mathematics Meetings, Boston, MA.
- Blyman, K. & Beecher, A. (2023). Integrating modeling into established courses. Contributed Paper Session at the Joint Mathematics Meetings, Boston, MA.
- Snook, K., Beecher, A., Horton, S., & **Blyman, K.** (2022). Integrating math modeling and interdisciplinarity into your classroom. Contributed Paper Session at the MAA MathFest, Philadelphia, PA.

MATHEMATICAL MODELING COMPETITIONS

- 2022 Director for the Middle Mathematical Contest in Modeling (MidMCM).
 Individual Team Commentary Author for the Interdisciplinary Contest in Modeling (ICM) Problem E.
- 2021 Co-Director for the Interdisciplinary Contest in Modeling (ICM).

 Problem Author for the Interdisciplinary Contest in Modeling (ICM) Problem E.

 Final & Triage Judge for the Middle Mathematical Contest in Modeling (MidMCM).

 Problem Development Team Member for the High School & Middle School Mathematical Contests in Modeling (HiMCM & MidMCM).

2020 -	Problem Director for the Interdisciplinary Contest in Modeling (ICM) - Problem E.
2019 -	Triage Judge Coordinator for the Interdisciplinary Contest in Modeling (ICM) -
	Problem E.
2018 -	Final & Triage Judge for the Interdisciplinary Contest in Modeling (ICM) - Problem
	E.
2021	Co-Director for the Middle Mathematical Contest in Modeling (MidMCM).
2017	Judge for the Cumberland Valley Math Modeling Challenge.
DELUDING 0	

REVIEWS & REFEREEING

2022	Reviewer for the School Science and Mathematics Association (SSMA) Convention
	Proceedings.
2019	Referee for the Journal of Humanistic Mathematics.
2018	Referee for Mathematica Militaris.
2015 - 2016	Referee for PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate
	Studies.
2014 - 2015	Reviewer for the School Science and Mathematics Association (SSMA) Convention
	Proceedings.
2014	Textbook Reviewer for Mathematics for Elementary Teachers with Activities, 4th
	Edition.

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OUTREAC	CH
2022	Facilitator of Actuarial Finance Presentation at Kalama High School, Kalama, WA.
2019	STEM Session Coordinator at Philadelphia Housing & Urban Development (HUD)
2010	Event with CLD STEM, Philadelphia, PA.
	STEM Session Coordinator at Philadelphia LEADS with CLD STEM, Philadelphia,
	PA.
	Lead Classroom Presenter at Henry Clay High School with West Point CLD STEM,
	Lexington, KY.
	Volunteer at Henry County Middle School with West Point CLD STEM, New Castle,
	KY.
	Volunteer at Henry County High School with West Point CLD STEM, New Castle,
	KY.
	Session Co-Developer & Co-Leader at West Point Lainis STEMinar, West Point,
	NY.
2018 - 2019	Session Leader at Raiders - Black Knights High School STEM Day, West Point, NY.
	Session Co-Developer & Co-Leader at West Point Middle School STEM Workshop,
	West Point, NY.
2018	Volunteer at DC LEADS with CLD STEM, MITRE, McLean, VA.
2016	Volunteer at Harrison Elementary School Family Math Night, Lexington, KY.
2013 - 2016	Volunteer at High School Math Day for Women, University of Kentucky.
2015	University Liaison at Jessie Clark Middle School Family STEM Night, Lexington,
	KY.
2014	Volunteer at Student Technology Leadership Program Regional Competition, Univer-
	sity of Kentucky.
	Volunteer at STEM Day at Wellington Elementary School, Lexington, KY.
2013 - 2014	Graduate Assistant at Central Kentucky Math Circle at Tates Creek Elementary
	School, Lexington, KY.
2013	Graduate Assistant at Math Club at Lafayette High School, Lexington, KY.
	Volunteer at Drop in Math Tutoring at Henry Clay High School, Lexington, KY.
	Volunteer at Jessie Clark Middle School Family Math Night, Lexington, KY.
	Volunteer at Beaumont Middle School Family Math Night, Lexington, KY.
2011	Volunteer at STEM Education Night at Tates Creek Middle School, Lexington, KY.
	Volunteer at Girls in Engineering, Math, and Science Day, University of Kentucky.

Kentucky.

Volunteer at AWM Sonia Kovalevsky High School Mathematics Day, University of

2022	Joint Mathematics Meetings Virtual Conference.
	SIMIODE EXPO Virtual Conference.
	MAA MathFest Philadelphia, Pennsylvania.
2021	Joint Mathematics Meetings Virtual Conference.
	Interservice/Industry Training, Simulation and Education Conference
	STEM (IITSEC STEM) with stemCONNECT Virtual Conference.
2020	Joint Mathematics Meetings Denver, Colorado.
2019	Joint Mathematics Meetings Baltimore, Maryland.
	International Conference on Technology in Collegiate Mathematics
	(ICTCM) Scottsdale, Arizona.
2018	Joint Mathematics Meetings San Diego, California.
	Research in Undergraduate Mathematics Education Annual Conference
	(SIGMAA-RUME) San Diego, California. International Conference on Technology in Collegiate Mathematics
	(ICTCM) Washington, D.C.
	MAA MathFest Denver, Colorado.
2017	Joint Mathematics Meetings Atlanta, Georgia.
2016	Joint Mathematics Meetings Seattle, Washington.
2010	McCabe Developmental Education Conference (NADE) Cleveland, Ohio.
2015	Kentucky Mathematics Educator Development (KMED) Conference Eastern
	Kentucky University.
	National Council of Teachers of Mathematics (NCTM) National Conference
	Boston, Massachusetts.
	Graduate Students Combinatorics Conference University of Kentucky.
2014	Joint Mathematics Meetings Baltimore, Maryland.
	School Science and Mathematics Association (SSMA) National Convention
	Jacksonville, Florida.
2013	Joint Mathematics Meetings San Diego, California.
	Triangle Lectures in Combinatorics Wake Forest University.
2012	American Mathematical Society (AMS) Sectional Meeting University of Akron
	Society for Advancement of Hispanics/Chicanos and Native Americans in
	Science (SACNAS) National Conference Seattle, Washington.
	Modern Math Workshop at SACNAS Seattle, Washington. AMS Mathematics Research Community in Discrete and Computationa
	Geometry Snowbird, Utah.
	Graduate Students Combinatorics Conference University of Illinois, Urbana
	Champaign.
	Spring Opportunities Workshop Mathematical Sciences Research Institute (MSRI
	at the University of California, Berkeley.
2011	Mathematical Association of America (MAA) Mathfest Lexington, Kentucky.
2010	AMS Sectional Meeting University of Kentucky.
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Geometry Snowbird, Utah.
Graduate Students Combinatorics Conference University of Illinois, Urbana-Champaign.
Spring Opportunities Workshop Mathematical Sciences Research Institute (MSRI) at the University of California, Berkeley.

Mathematical Association of America (MAA) Mathfest Lexington, Kentucky.
AMS Sectional Meeting University of Kentucky.
MAA Kentucky Section, Annual Meeting University of Kentucky.

Joint Mathematics Meetings Washington, D.C.
MAA Eastern Pennsylvania and Delaware (EPADEL) Section, Spring Meeting Moravian College.

MAA EPADEL Section, Fall Meeting Ursinus College.

Association of Christians in the Mathematical Sciences (ACMS) Annual Meeting Messiah College.

MAA EPADEL Section, Career Conference Moravian College.

PROFESSIONAL MEMBERSHIPS

CURRENT

Association for Women in Mathematics. Mathematical Association of America. National Council of Teachers of Mathematics. Pi Mu Epsilon.

LAPSED

American Mathematical Society. School Science and Mathematics Association. Society for Advancement of Chicanos and Native Americans in the Sciences.