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Bryn Mawr College • Department of Mathematics • 101 N. Merion Avenue • Bryn Mawr, Pennsylvania 19010 • USA  
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**E**

**Ph.D., Mathematics**, 2012, University of Utah | *Advisor*: Frederick R. Adler

**M.S., Mathematics**, 2008, University of Utah

**A.B., Mathematics**, 2004, Bryn Mawr College | *Magna Cum Laude, Honors in Mathematics*

**R I**

Mathematical biology, with applications to generalized physiology, including metabolism, endocrinology, and immune-mediated mechanisms of hemostasis.

**A P**

Bryn Mawr College Mathematics Department

**Associate Professor**

**2021–present**

**Assistant Professor**

**2015 – 2021**

NC State University Department of Mathematics

**NSF Alliance Postdoctoral Research Scholar** | *Mentor*: James F. Selgrade

**2012 – 2015**

**P**

**Books**

A. Deines, D. Ferrero, E. G. , M. S. Im, C. Manore, C. Price. 2018. *Advances in the Mathematical Sciences: AWM Research*

## G

### *Funded*

- 2021 | Mathematical Association of America Tensor-SUMMA (Strengthening Underrepresented Minority Mathematics Achievement) grant | Project: Mathematically Gifted and Black
- 2018 | Simons Foundation Mathematics and Physical Sciences-Collaboration Grants for Mathematicians | Project: Mathematical Models for Biomedical Applications
- 2016 | Alliance to Advance Liberal Arts Colleges workshop grant | Workshop: Strategic Optimization: Focusing Undergraduate Research to Maximize Scholarship in Applied Mathematics
- 2015 | AWM Conference Travel Grant

### *Unfunded*

- 2017 NSF CAREER: Modeling Androgen Signaling in Mechanisms of Ovulation
- 2016 NSF SCH:INT: Collab. Research: A Precision Obesity Management System using Dynamic Energy Profiling
- 2016 NSF QuBBD: Collaborative Research:

June 2017 (co-organizer and host): Alliance to Advance Liberal Arts Colleges Workshop, *Strategic Optimization: Focusing Undergraduate Research to Maximize Scholarship in Applied Mathematics*, Bryn Mawr, Pennsylvania, USA

April 2017 (special session co-chair): *From cells to landscapes: modeling health and disease*, Association for Women in Mathematics Research Symposium, Los Angeles, California, USA

March 2015 (minisymposium co-chair): *Fluid Transport Dynamics in Biology and Medicine, part of the Workshop Celebrating Diversity*, Society for Industrial and Applied Mathematics (SIAM) Conference on Computational Science and Engineering, Salt Lake City, Utah, USA

October 2014: *Perspectives in Diabetes Modeling*, International Symposium on Biomathematics and Ecology Education and Research, Claremont

February 2016: Bard College at Simons Rock, Barrington, Massachusetts, USA  
February 2016: Applied Math & Scientific Computing Seminar, Temple University, Philadelphia, Pennsylvania, USA  
November 2015: Bi-Co Mathematics Colloquium (Haverford College)  
December 2014: GlaxoSmithKline (remote), Research Triangle Park, North Carolina, USA  
October 2014: Mathematical Biological Colloquium, Duke University, Durham, North Carolina, USA  
July 2014: National Institutes of Health/National Institute of Diabetes and Digestive and Kidney Diseases (NIH/NIDDK), Bethesda, Maryland, USA  
January 2013: Biomathematics Seminar, North Carolina State University, Raleigh, North Carolina, USA  
June 2012: Metabolism Interest Group, Division of Endocrinology, University of Utah School of Medicine, Salt Lake City, Utah, USA  
July 2009: University of Minnesota Medical School (Division of Pediatric Endocrinology), Minneapolis, Minnesota, USA

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August 2023: International Congress on Industrial and Applied Mathematics (ICIAM), Tokyo, Japan  
July 2023: Society for Mathematical Biology Annual Meeting, Columbus, Ohio, USA  
May 2023: SIAM Conference on Dynamical Systems, Portland, Oregon, USA  
July 2022: SIAM Annual Meeting, Pittsburgh, Pennsylvania, USA  
May 2021: SIAM Conference on Dynamical Systems (*virtual*)  
July 2019: International Congress on Industrial and Applied Mathematics (ICIAM), Valencia, Spain  
July 2019: SIAM Conference on Dynamical Systems, Snowbird, Utah, USA  
March 2019: Explanation, Idealization and Modeling Workshop, Bryn Mawr College, Bryn Mawr, Pennsylvania, USA  
July 2018: SIAM Annual Meeting, Portland, Oregon, USA  
July 2018: SIAM on Dynamical Mathematics Education,

June 2019:

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July 2017: Society of Mathematical Biology Annual Meeting, Salt Lake City, Utah, USA

July 2017: University of Utah Math Biology Alumni Reunion Conference in honor of James P. Keener's 70th birthday, Salt Lake City, Utah, USA

October 2014: International Symposium on Biomathematics and Ecology

June 2009, Workshop co-organizer: 5<sup>th</sup> Annual IGERT Student Workshop, Department of Mathematics, University of Utah, Salt Lake City, Utah, USA

*Organized 3-day project-based workshop for first- and second-year graduate students featuring eminent speaker.*

April 2009, Participant: Center for Quantitative Biology Workshop, Department of Mathematics and College of Science, University of Utah, Salt Lake City, Utah, USA

May 2008, Participant: Mathematical Perspective on Cancer Immunology, Department of Mathematics, University of Utah, Salt Lake City, Utah, USA

June 2006, Invited participant: Enhancing Diversity in Graduate Education Summer Program, New College of Florida, Sarasota, Florida, USA

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2022–2024: Parliamentarian of the Faculty

2020–2022: Committee on the Undergraduate Curriculum

Spring 2020: Data Science steering committee

AY2019–2020: co-convener of the junior faculty

Fall 2019: Extra-departmental member, Bryn Mawr physiology faculty search committee

August 2019: Panelist, New faculty orientation

Fall 2017–Spring 2020: Committee on Libraries, Information and Computing (CLIC); 2019–2020 CLIC chair

December 2017–January 2018: BMC representative, Haverford pure mathematics faculty search committee

September 2017–December 2017: BMC representative, Haverford applied mathematics faculty search committee

May 2017 | May 2018: Emergency Faculty Marshal, Convocation & Commencement

October 2016–March 2017: 2017 Community Day of Learning planning committee

September 2016–February 2017: Bryn Mawr representative, Haverford health studies search committee