Camille Schuetz

Department of Mathematics

University of Kentucky

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Education

University of Kentucky, Lexington, KY, USA

Masters of Arts in Mathematics   May 2020
Advisor: P. Perry

University of Wisconsin-Platteville, Platteville, WI , USA

Bachelor of Science in May 2018
Minor in Spanish
Summa Cum Laude

Publications and Presentations

Publications:

- *A Positivity-Preserving Limiting Strategy for Locally-Implicit Lax-Wendroff Discontinuous Galerkin Methods*, joint with Mariana Harris, Caleb Logemann, Stefan Nelson, Ian Pelakh, James A. Rossmanith
- *Critical Points of a Family of Complex-Valued Polynomials*, joint with Christopher Frayer, (In Minnesota Journal of Undergraduate Mathematics).

Presentations at conferences:

- "Critical Points of a Family of Complex Valued Polynomials"
  - MAA Section Meeting (2018)
  - Senior Seminar Presentations University of Wisconsin-Platteville (2018)
- "Positivity and Slope Limiters for Locally Implicit Lax-Wendroff Discontinuous Galerkin Methods,"
  - Joint Math Meetings (2018)
  - Bi-State Math Colloquium Series at University of Wisconsin-Platteville (2017)
  - International Linear Algebra Society Conference (2017)
- "A Radically Simple State Sum Invariant for Complex n-manifolds," Nebraska Nebraska Conference for Undergraduate Women in Mathematics (2017)

Further Conferences and Workshops Attended

- *Simiod Expo 2021 Conference Virtual (2021)*
- *RTG Conference on Geometric Analysis and Diversity in Mathematics Festival New Jersey (2019)*
- *Princeton Summer School in Geometric Analysis New Jersey (2019) Included 8 Mini-courses:*

- Minimal and constant mean curvature surfaces in 3-manifolds
- Extremal metrics for some variational geometric quantities
- Min-max theory for the area functional and applications
- Geometric features of the Allen-Cahn equation
- Zeros of harmonic functions and Laplace eigenfunctions
- Sobolev inequalities and the problem of prescribing curvatures
- Holography in conformal geometry
- Geometry of surfaces in the 3-dimensional Heinsenberg
- *Wisconsin MAA Section Meeting Wisconsin (2016)*

Graduate Coursework

○ Passed preliminary exams in Real Analysis, Discrete, and Partial Differential Equations

- Real Analysis I and II
- Partial Differential Equations I and II
- Principles of Analysis
- Modern Algebra I and II
- Linear Algebra

- Complex Analysis
- Discrete Math I and II
- Differential Geometry
- Numerical Analysis I
- Topics in Analysis

Teaching Experience

University of Kentucky– Teaching Assistant   Aug. 2018– Present

- Primary Instructor
  - MA 214, Calculus IV   Spring 2021
- Recitation Leader
  - MA 114, Calculus II   Spring 2020
  - MA 123, Calculus I with applications to business   Fall 2019 and Fall 2020
    * Lead Teaching Assistant Fall 2020
  - MA 113, Calculus I   Spring 2019
  - MA 110, PreCalculus   Fall 2018
- *Extracurricular Teaching Activities*
  - Complex Analysis Preliminary Exam Coach for first and second year graduate students January 2021
  - Led Real Analysis help sessions for First year graduate students during the semester

Professional Affiliations

- Association for Women in Mathematics
  - Officer Fall 2020 and Spring 2021