

Alec D. Wendland

Curriculum Vitae

The University of Connecticut
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Department of Mathematics
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Education

- PhD (candidate) The University of Connecticut, Storrs, Connecticut (August 2021 – present)
Oral Examination: Γ -convergence and Aviles-Giga-type functionals
Preliminary Examinations: Numerical analysis, applied mathematics, real analysis
- B.S. Carroll University, Waukesha, Wisconsin (September 2017 – May 2021)
Major: Mathematics, Minor: Computer Science
Honors Program
Summa Cum Laude

Teaching Experience

The University of Connecticut

Primary Instructor

MATH 1071Q, Calculus for business and economics (Spring 2024)

Graduate Teaching Assistant

MATH 2110Q, Multivariable calculus (Fall 2022, Spring 2023, Summer 2023)

MATH 1132Q, Calculus 2 (Spring 2022)

MATH 1131Q, Calculus 1 (Fall 2021, Fall 2023)

Preliminary Examination Tutor

Applied mathematics (Summer 2023)

Carroll University

Peer Educator

CMP112, Computational thinking 1 (Spring 2021)

CMP114, Computational thinking 2 (Spring 2021)

MAT207, Calculus 3 (Fall 2020)

MAT309, Ordinary differential equations (Fall 2020)

Invited Talks

- [1] March 2023, The University of Connecticut, Mathematics Continued Conference
- [2] October 2023, The University of Connecticut, Geometric Analysis Student Seminar
- [3] May 2023, The University of Connecticut, Geometric Analysis Student Seminar
- [4] April 2020, Carroll University, Celebrate Carroll Academic Research Conference
- [5] April 2019, Carroll University, Celebrate Carroll Academic Research Conference
- [6] January 2019, Joint Mathematics Meetings, Undergraduate Poster Session, Baltimore, MD

Works in Preparation

- [1] T. E. St. George and A. D. Wendland, *Orthonormalization of a subset of Bernstein polynomial basis functions*. Submitted to PUMP Journal of Undergraduate Research, 2023.
- [2] T. E. St. George and A. D. Wendland, *Bernstein reproducing kernel method for systems of nonlinear boundary value problems*. In preparation.

Fellowships, Grants, and Awards

Summer Fellowship, The University of Connecticut, Summer 2022, \$5,000
Alan and Linda Thompson Scholarship, Carroll University, presented to an undergraduate mathematics student recognizing hard work and achievement in the field, August 2020, \$2,500
Mathematics Major of the Year, Carroll University, March 2019, May 2021
Student Scholarly Travel Grant, Carroll University, December 2018, \$700
Pioneer Scholar Grant, Carroll University, stipend provided to undergraduate students to engage in an intensive scholarly research project, March 2018, \$3,000
Dean's List, Carroll University, 2017, 2018, 2019, 2020, 2021
National Merit Scholarship, Mead Witter Foundation, 2017, 2018, 2019, 2020, \$5,000
Wisconsin Academic Excellence Scholarship, State of Wisconsin Higher Educational Aids Board, 2017, 2018, 2019, 2020, \$2,250.

Service

The University of Connecticut:

- Treasurer, Society for Industrial and Applied Mathematics Student Chapter (Fall 2021 – present)
- Participant, speaker, and co-organizer, UConn SIAM student chapter reading group in the calculus of variations (Spring 2023)
- Participant, speaker, and co-organizer, UConn SIAM student chapter reading group in numerical analysis (Fall 2022)

- Participant, speaker, and co-organizer, UConn SIAM student chapter reading group in ordinary differential equations (Spring 2022)

Carroll University:

- Vice President, Carroll University Mathematics Club (2020 – 2021)

Professional Organizations

American Mathematical Society

Society for Industrial and Applied Mathematics