

# Alec D. Wendland

## Curriculum Vitae

The University of Connecticut  
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## Education

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PhD (student) The University of Connecticut, Storrs, Connecticut (August 2021 – Present)  
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

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*The University of Connecticut*

*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

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- [1] May 2023, The University of Connecticut, Geometric Analysis Student Seminar.
- [2] April 2020, Carroll University's Celebrate Carroll Academic Research Conference, Waukesha, WI.

- [3] April 2019, Carroll University's Celebrate Carroll Academic Research Conference, Waukesha, WI.
- [4] January 2019, Joint Mathematics Meetings, Undergraduate Poster Session, Baltimore, MD.

## Works in Preparation

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- [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

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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

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*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)
- Participant, Mathematics Continued Conference (October 23, 2021)

*Carroll University:*

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

## Professional Organizations

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American Mathematical Society

Society for Industrial and Applied Mathematics