

### Education

- 2020–2025 **PhD in Mathematics**, Dartmouth College, Hanover, New Hampshire.  
(expected) **Advisor:** Feng Fu.
- 2022 **M.A. in Mathematics**, Dartmouth College, Hanover, New Hampshire.
- 2020 **M.S. in Mathematics**, TU Braunschweig, Braunschweig, Germany.
- 2019 **B.S. in Mathematics**, TU Braunschweig, Braunschweig, Germany.

### Publications

- 2020 **Oscillatory Dynamics in the dilemma of social distancing**, (with Feng Fu), *Proc. Roy. Soc. A* 476: 20200686 (DOI:10.1098/rspa.2020.0686).

### Conference Talks

- October 2022 **Oscillatory Dynamics in the dilemma of social distancing**, *AMS Fall Sectional*, UMass Amherst, Amherst, Massachusetts.
- February 2022 **A tale of two vaccine efficacies: Simpson’s paradox and bifurcations**, *Winter q-bio*, Oahu, Hawaii.
- February 2022 **A tale of two vaccine efficacies: Simpson’s paradox and bifurcations**, *DSABNS 2020*, (virtual).
- October 2022 **Oscillatory Dynamics in the dilemma of social distancing**, *SIAM Annual Meeting*, (virtual).

### Seminar Talks

- Nov 2022 **Indirect Reciprocity**, *Graduate Student Seminar*, Dartmouth College, Hanover, New Hampshire.
- June 2022 **Carrots, not sticks, cause evolutionary branching in volunteers and free-riders**, Max-Planck Institute for Evolutionary Biology, Plön, Germany.
- Oct 2020 **Oscillatory Dynamics in the dilemma of social distancing**, *ACMS*, Dartmouth College, Hanover, New Hampshire.

### Professional Experience

- June 21 - **Visiting Researcher**, Max-Planck Institute for Evolutionary Biology, Research Group  
June 23 2022 *Dynamics of Social Behavior*, Plön, Germany.
- August 21 - **Participant**, The Helsinki Summer School on Mathematical Ecology and Evolution,  
August 28 2022 Turku, Finland.

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## Teaching Experience

### Instructor of Record

Fall 2022 **Introduction to Calculus**, *Math 1*, Dartmouth College.

### Graduate Teaching Assistant

Spring 2022 **Introductory Statistics**, *Math 10*, Dartmouth College.

Fall 2021 **Accelerated Multivariate Calculus**, *Math 11*, Dartmouth College.

Spring 2021 **Multivariate Calculus**, *Math 8*, Dartmouth College.

Fall 2020 **Linear Algebra and Applications**, *Math 22*, Dartmouth College.

### Student Assistant

Fall 2020 **Analysis I**, TU Braunschweig.

Spring 2019 **Probability Theory and Discrete Mathematical Finance**, TU Braunschweig.

Fall 2018 **Introduction to Mathematical Stochastics**, TU Braunschweig.

Fall 2017 **Linear Algebra I**, TU Braunschweig.

Spring 2017 **Analysis II**, TU Braunschweig.

Fall 2016 **Analysis I**, TU Braunschweig.

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## Mentoring and Outreach

Summer **Exploring mathematics camp**, Dartmouth College, Hanover, New Hampshire.

2022 Co-taught a two weeks program on game theory and probability for high school and middle school students.

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## Academic Honors

Sep 2020 **Dartmouth Fellowship**, Dartmouth College, Hanover, New Hampshire.

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## Service

Fall 2022 - **Fu lab meeting**, *co-organizer*, Dartmouth College, Hanover, New Hampshire.

Spring 2023

2017–2020 **Fachgrupperat Mathematik**, *elected member*, TU Braunschweig, Braunschweig, Germany.

Fall 2016 **Student Representative, Gauß-Faculty**, *elected member*, TU Braunschweig, Braunschweig, Germany.

## Memberships

Society for Industrial and Applied Mathematics (SIAM).  
American Mathematical Society (AMS).

## Technical Skills

**Fluent in:** Latex, Matlab, R.  
**Experience with:** C, Java, Python.

## Languages

**German:** native speaker.  
**English:** fluent.  
**French:** basic.