

Subekshya Bidari

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Education

- May 2022(Ex-pected) **PhD Applied Mathematics**, *Advised by Zachary Kilpatrick*, University of Colorado Boulder.
- May 2020 **Masters of Science**, *Applied Mathematics*, University of Colorado Boulder.
- May 2017 **Bachelors of Science**, *Mathematics*, Trinity College.
- Fall 2015 **Budapest Semesters in Mathematics**, *Budapest, Hungary*.
- Spring 2016 **Trinity College Dublin**, *Ireland*.

Teaching Experience

- Fall 2021 **Applied Probability Teaching Assistant**, *University of Colorado Boulder*.
- Fall 2020 **Matrix Methods and Applications Teaching Assistant**, *University of Colorado Boulder*.
- Fall 2017, 2018 **Differential Equations Teaching Assistant**, *University of Colorado Boulder*.
- Fall 2016 **Microeconomics Teaching Assistant**, *Trinity College Economics Department*.
- Fall 2016 **Student Tutor**, *Trinity College Quantitative Center*.
- 2014, 2015 **Teaching Assistant Calculus I and II**, *Trinity College Mathematics Department*.

Presentations

- June 2021 **Evidence accumulation models of collective foraging**.
Society of Mathematical Biology Annual Meeting (virtual conference)
- June 2020, **Hive geometry shapes social information transfer in honeybee colonies**.
- March 2021 SIAM Conference on Life Sciences (Virtual)
SIAM Front Range Applied Mathematics Student Conference FRAMSC (virtual)
- May 2019, **Social inhibition maintains adaptivity and consensus of honey bees foraging in dynamic environments**.
Sept 2019
Poster at SIAM Applications of Dynamical Systems, Snowbird
Mini-symposium, SIAM Northern States Annual Meeting, Wyoming
- August 2018 **Optimizing flexibility in the collective decisions of honeybees**.
Mini-symposium, SIAM Life Science, Minnesota
Invited speakers Session, Mathfest, Denver
- August 2016 **Modeling Influenza on a college campus using graphs of Social Networks**.
Pi Mu Epsilon Student Paper Sessions, Mathfest, Columbus
Undergraduate Capstone Conference, Mathematics Biosciences Institute, Ohio State University

Publications

- 2021 Bidari, Subekshya, and Zachary P. Kilpatrick. *"Hive geometry shapes the recruitment rate of honeybee colonies."* Journal of Mathematical Biology 83.2 (2021): 1-40.
- 2019 Bidari, Subekshya, Orit Peleg, and Zachary P. Kilpatrick. *"Social inhibition maintains adaptivity and consensus of foraging honeybee swarms in dynamic environments."* Royal Society open science 6.12 (2019): 191681.
- 2019 Bidari, Subekshya, and Eli E. Goldwyn. *"Stochastic models of influenza outbreaks on a college campus."* Letters in Biomathematics(2019): 1-14.

- 2016 Bidari, Subekshya, et al. *"Solvability of implicit final size equations for SIR epidemic model."* Mathematical biosciences 282 (2016): 181-190.

Fellowships and Awards

- 2020-2021 **German Academic Exchange Service (DAAD) Short Term Research Grant, €6525.**
2019-2020 **AAUW International Doctoral Fellowship, \$ 20,000.**
2017 **W.H. Russell Fellowship, Trinity College, \$ 7,500.**

Professional Memberships

Association of Women in Mathematics
Society of Applied and Industrial Mathematics