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Subekshya Bidari

	Education
May 2022	PhD Applied Mathematics , Advised by Zachary Kilpatrick, University of Colorado Boulder, (Expected).
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 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
	Hive geometry shapes social information transfer in honeybee colonies. SIAM Conference on Life Sciences (Virtual) SIAM Front Range Applied Mathematics Student Conference FRAMSC (virtual)
•	Social inhibition maintains adaptivity and consensus of honey bees foraging in dy namic environments.
-	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
(submitted to JOMB) 2020	Bidari, Subekshya, and Zachary P. Kilpatrick. "Hive geometry shapes the recruitment rate of honeybee colonies." arXiv preprint arXiv:2012.00157 (2020).
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