Contact Information		ochu@brynmawr.edu • (610) 526-5347 p O ce: Park 334
Research Interests	Evolutionary game theory, evolutionary dynamics, complex adaptive networks, social behavior, quantitative social science	
Education	Princeton University, Princeton, New Jersey, USA Ph.D., Quantitativ e and Computational Biology, September2021 M.A., Quantitative and Computational Biology, January 2017 Advisor: CoAtidNaisors: Robert V. Kohn, Trushant S. Majmudar 2021)f <0003>Tj /T1_2 1 Tf 1.231 0 Td 87P3.51e	

	 Olivia J. Chu, Atticus W. McWhorter, and Wai-Tor Preferencesand Personality in Adaptive Network Mod 		jeneous
	[?] indicates an undergraduate co-author.		
Teaching	Bryn Mawr College		
	MATH B295 { Select Topics in Mathematics: Evolutiona Instructor	• • • •	2024
	Dartmouth College		
	Math 76 { Evolutionary Dynamics Instructor	Winter	2023
	Math/QSS 30.04{ Evolutionary Game Theory and Appli Instructor	lications Spring 2022,	, 2024
	Princeton University		
	MAT 378 { Theory of Games Assistant in Instruction (AI)	Spring 2018, 2019,	2020
	MAT 104 { Calculus II Assistant in Instruction (AI)	Summer 2020, Fall	2020
	Courant Institute, New York University		
	Grader, Mathematics for Economics Mathematics Tutor, Calculus I-III, Discrete Mathematics Teaching Assistant, Calculus III, Linear Algebra		

4. HeterogeneousPreferences

- 4. An Adaptive Voter Model Applied to Polarization Data, Theoretical Ecology Lab Tea. Princeton University, Nov. 2020
- Evolutionary Dynamics in a Group Population Structure with Barriers to Group Entry, SIAM Conferenceon the Life Sciences(cancelled due to COVID-19), June 2020
- 6. An Adaptive Voter Model in Heterogeneous Environments, SIAM Conferenceon the Life Sciences (cancelled due to COVID-19), June 2020
- 7. Evolutionary Dynamics in a Group Population Structure, Joint Mathematics Meetings (JMM). Denver, CO, Jan. 2020
- 8. An Adaptive Voter Model with Optimal Distinctiveness, Theoretical Ecology Lab Tea. Princeton University, Oct. 2019
- 9. Evolutionary Dynamics in a Group Population Structure, Social Decisions Workshop. University of Houston, Oct. 2019
- 10. Evolutionary Dynamics in a Group Population Structure (poster), Society for Mathematical Biology Annual Meeting. Monteal, QC, Canada, July 2019
- Optimal Distinctiveness and its E ects on Network Formation and Social Integration, CoCCoN Workshop on the Social Modulation of Risk & Collective Cognition. Humboldt University, Berlin, Germany, July 2019
- 12. Evolutionary Dynamics in a Group Population Structure, SIAM Conferenceon Applications of Dynamical Systems. Snowbird, UT, May 2019

Talk recording and slides: https://bit.ly/2Zp8BmD

13. Evolutionary Dynamics in a Group Population Structure, APS March Meeting. Boston, MA, Mar. 2019

Featured in the conference'smedia materials: https://phys.org/news/2019-03-approach-cooperate.html

Participated in a pressconferencewith membersof the media

- 14. Evolutionary Dynamics on Sets with Barriers to Entry, Theoretical Ecology Lab Tea. Princeton University, Dec. 2017
- 15. Evolutionary Dynamics on Sets with Barriers to Entry, NIH NHGRI Annual Meeting. St. Louis, MO, Apr. 2017
- 16. Evolutionary Dynamics on Setswith Barriers to Entry, QCB Colloquium. Princeton University, Apr. 2016
- 17. Analysis of the \Euglenoid Motion" { Locomotion by Shape Deformations, NYU Dean's Undergraduate ResearchConference.Apr. 2015
- 18. Analysis of the \Euglenoid Motion" { Locomotion by ShapeDeformations, Courant Institute Undergraduate ResearchConference.Oct. 2014

 Other
 An Introduction to Evolutionary Game Theory, cSplash, Courant Institute. Apr. 2019

 Presentations
 Templics in Quantitati, 2:1aTroBC073000.tati(0)Täl/B2:10gly,5NYU<000.8eriej//5tlitu2:ef TM2:14906.0tTd (in)Tj /C2_0 19</th>

 ics Society. Nov. 2015
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Invited Workshops and Conferences	Building a Bigger and Better US, MIT, Sept. 2024 Co-hosted by MIT's Laboratory for Financial Engineering, American Exchange Project, and The Cooperation Game, in collaboration with the Santa Fe Institute	
	Collective Adaptation in a Turbulent World , Santa Fe Institute , Sept. 2023	
	CoCCoN Workshops (Cooperation and Collective Cognition Network) Humboldt University, Berlin, Germany { Nov. 2017,July 2019 Princeton University, Princeton, NJ { May 2017,Jan. 2019	
	Langfeld Meeting, From Micro-Level Cognitive Phenomena to Large-Scale Social Dynamics, Princeton University, May 2017	
Leadership, Service, and Volunteering	Minisymposium Organizing	
	SIAM Life Sciences (LS)	
	June 2024	
C sporgialhisess tionon Sept. Phenomena		

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eSMB

Society for Mathematical Biology Annual Meeting (online) Aug. 2020 Co-organized a mini-symposium on \The Emergenceand Stability of Population Structure and Biological AggregatesAcross Scales".

AMS Spring Sectional Meeting

Tufts University

March 2020, March 2022 Co-organized a special sessionon \Mathematical Methods for Ecology and Evolution in Structured Populations".

Peer Mentoring

QCB Peer Mentor Princeton University

Sept. 2017 - Sept. 2021

cSplash is an annual one-day lecture series for advanced high school students interested in STEM. Served as Advertising coordinator from 2012-2013, Logistics Coordinator from 2013-2014, and co-director from 2014-2015.