

Max Booth

CONTACT	Wyman Park Building The Johns Hopkins University Baltimore, MD 21211	<i>Email:</i> mbooth12@jh.edu <i>Mobile:</i> (801) 597-0755
RESEARCH	Mathematician interested in PDEs, Stochastic Analysis, and Applied Mathematics in Data Science & Machine Learning. Previously applied techniques in Mathematics & Biostatistics to construct and validate predictive mathematical models of cancer progression and neurological development at the Johns Hopkins University School of Medicine.	
EDUCATION	Johns Hopkins University , PhD in Applied Mathematics and Statistics University of Utah , B.S. in Applied Mathematics <i>Summa Cum Laude</i>	Current 2023
EXPERIENCE	Teaching Assistant Johns Hopkins University <ul style="list-style-type: none"><i>Honors Discrete Mathematics</i>— FA 2024 Research Assistant The Johns Hopkins University School of Medicine Advisors: Elana Fertig, Genevieve Stein-O'Brien Undergraduate Teaching Assistant University of Utah Supervisor: Lisa Penfold <ul style="list-style-type: none"><i>Tutor, Foundations of Analysis Tutor</i><i>Grader: MATH 1050, 1080, 1210, 1220, 1310, 1320, 2200, 2210, 2250, 2270, 3150, 3210, & 3220</i> Private Tutor— Mathematics Salt Lake City, UT <ul style="list-style-type: none"><i>College Algebra, Calculus, Linear Algebra, ODEs, PDEs, Discrete Mathematics, Foundations of Analysis I, & Foundations of Analysis II</i>	2024— 2022—2024 2019—2022 2017—2023
PUBLICATIONS & PREPRINTS	[1] Digitize your Biology! Modeling multicellular systems through interpretable cell behavior <i>Submitted</i> (J. Johnson, G. Stein O'Brien, M. Booth, R. Heiland, F. Kurtoglu et al.) Available at bioRxiv: https://doi.org/10.1101/2023.09.17.557982	
PROJECTS & RESEARCH	PhysiCell Workshop and Hackathon Indiana University Bloomington <i>Random Walks ... with Modulated Responses to Physical Barriers</i>	2023

Research Internship
The Johns Hopkins University School of Medicine
Supervisor: Elana Fertig

2022

AWARDS

President's Scholarship
University of Utah

2019—2023

CONFERENCES
ATTENDED

IMAG/MSM Past2Future Meeting

2023