

Zain Luís Garrett Padamsee

1366 Darcann Drive, Upper Arlington, OH 43220 | (zain@)zainpadamsee.com | any pronouns

Education

BOWDOIN COLLEGE | BA | CUM LAUDE | DECEMBER 2023 | UNWEIGHTED 4.0 GPA: 3.920

MAJORS: MATHEMATICS AND SOCIOLOGY | MINOR: GENDER, SEXUALITY, AND WOMEN'S STUDIES

- Math coursework
 - Advanced Geometry 2023
 - Introductory and Advanced Group Theory 2021, 2023
 - Topology 2022
 - Introductory and Advanced Analysis 2021-2022
 - Ordinary Differential Equations 2021
 - Introduction to Mathematical Reasoning 2020
 - Multivariate Calculus 2019
- Sociology coursework
 - Current Controversies in Sociology 2023
 - Classics of Sociological Theory 2022
 - Sociology of Education 2022
 - Racial and Ethnic Health Disparities 2022
 - Deconstructing Masculinities (also listed under gender/sexuality studies) 2021
 - Introduction to Social Research 2021
 - Immigration and the Politics of Exclusion 2021
 - Sociology of Sexuality (also listed under gender/sexuality studies) 2020
 - Introduction to Sociology 2019
- Gender, Sexuality, and Women's Studies coursework
 - First-Year Writing Seminar: Jane Austen 2019
 - Sociology of Sexuality (also listed under sociology) 2020
 - Queer Youth Cultures: Texts and Contexts 2021
 - Deconstructing Masculinities (also listed under sociology) 2021
 - Introduction to Gender, Sexuality, and Women's Studies 2022
 - Mentored independent research on aromanticism 2022
 - Disruptive Play: Approaching Video Games as a Queer Archive 2023
 - Latin American Feminisms 2023
- Other coursework
 - Orchestra 2019-2020, 2022-2023
 - Youth and Agency in Insecure Times (Anthropology) 2023
 - Quantum Chemistry and Spectroscopy 2021
 - Chamber Ensemble 2021
 - Elementary German I and II 2019-2020
 - Data Structures (Computer Science) 2020
 - Introductory Physics 2 2020

PRIOR COLLEGE-LEVEL COURSEWORK

• IB Computer Science HL (score: 5)	2017-2019
• IB Language A English Language and Literature HL (score: 6)	2017-2019
• IB Psychology HL (score: 6)	2017-2019
• IB World Religions SL (score: 6)	2018-2019
• AP Physics C: Mechanics (score: 5)	2018-2019
• AP Statistics (score: 5)	2018-2019
• IB Mathematics HL (score: 7)	2016-2018
• IB Spanish SL (score: 6)	2017-2018
• AP Macroeconomics (score: 5)	2017-2018
• AP Microeconomics (score: 5)	2017-2018
• AP Calculus BC (score: 5) (overlaps with IB Mathematics)	2017-2018
• AP English Language and Composition (score: 4) (overlaps with IB English)	2017-2018
• AP Chemistry (score: 5)	2016-2017
• AP United States Government and Politics (score: 5)	2016-2017
• AP Computer Science A (score: 5) (overlaps with IB Computer Science)	2016-2017

UPPER ARLINGTON HIGH SCHOOL DIPLOMA | MAY 2019 | WEIGHTED 4.0 GPA: 4.4495

- International Baccalaureate Diploma
- Academic Honors Diploma in the state of Ohio

ADDITIONAL EDUCATIONAL EXPERIENCES

• Self-studied Linear Algebra	2020-2021
• Introductory Linguistics at the Ohio State University	2020
• Independent study research on education and linguistics, microbiology, and psychology	2015-2019
• AwesomeMath Summer Program student	2018
• The Biology of Cancer at Northwestern University's Equinox summer program	2017

Academic Publications and Conference Presentations

• Felix Nusbaum, Zain Padamsee, and Ava Zinman, "Model Theoretic Properties for Classes of Graphs," presented at Joint Math Meet (2024) , Young Mathematicians Conference (2023) , a private NSA event (2023), and Towson University (2023).	2023-2024
• Vince Guingona, Felix Nusbaum, Zain Padamsee, Miriam Parnes, Christian Pippin, and Ava Zinman, <i>Indivisibility for Classes of Graphs</i> , arXiv:2312.01466.	2023

Awards & Honors

• National Merit Scholar	2019-2023
• Hispanic Scholarship Fund Scholar	2019-2020
• Putnam Mathematical Competition score: 9	2019
• American Invitational Mathematics Exam score: 8 (version II 76 th percentile)	2019
◦ Qualifying contest: AMC12A (score: 93 qualifying cutoff: 84 95 th percentile)	
• MIT Battlecode 2019 high school top 8	2019
• National qualifier in U.S. National Chemistry Olympiad	2017, 2018
• CyberOhio CTF computer science competition winner	2018
• American Computer Science League "outstanding" result (score: 38/40)	2018
• Purple Comet Math Meet winner in Ohio	2018

- National Honors Society member 2018
- Cum Laude Society member 2018
- Science Olympiad local section Chemistry Lab winner 2017

Work Experience

- Student of math Research Experience for Undergraduates (REU) at Towson University 2023
 - Studied model theory, presented at the NSA, wrote peer-reviewed paper, and was funded to attend two conferences.
 - Collaborated with professors and other students to explain our results to each other and revise our write-ups.
- Research Assistant at the University of Michigan's Center for Social Media Responsibility 2021
 - Co-designed and conducted initial interviews for a study on cross-partisan political comments on YouTube
- Teaching Assistant at AwesomeMath Summer Program 2020
 - Graded and supervised problem solving sessions for classes on number theory, combinatorics, and algebra
- Research Assistant for Dr. Laura Justice, Educational Psychology, The Ohio State University 2019
 - Located, screened, and summarized peer-reviewed research for academic literature reviews on (1) barriers to accessing childcare and (2) how exposure to toxins affects young children.
- Internship with Kenyon College polymer chemist Dr. Yutan Getzler 2017
 - Learned about the lab's research and assisted with tasks around the lab, including washing, TLCs, and preparing solutions

Volunteer Experience

- College Guild 2019-2021
 - Wrote monthly feedback on correspondence coursework for incarcerated adults to widen access to education and dignity.
- Helping plan college's semiannual Masculinities Summit 2021
- Homeless shelters, food pantries, and soup kitchens 2012-2020
- Tutoring in computer science, physics, and math 2017-2020
- Common Good Grant 2019-2020
 - Raised over \$20,000, solicited grant applications from nonprofits, and visited shortlist organizations to select final recipients.
- High school Technology Help Desk 2017-2019

Activities & Organizations

- Cello player (solo and in college orchestra and ensembles) 2010-2023
- Gay Straight Alliance and similar groups 2016-2023
- Jogger 2017-2023
- Board Game Club leader 2019-2023
 - Organized weekly social events open to the campus to provide alternative weekend activities besides partying and drinking.
 - Welcomed new attendees by facilitating introductions with regular members and teaching games of interest.
- Organic Garden club member and leader 2019-2023
- Bowdoin Labor Alliance member and leader 2021-2023
- Out in STEM (oSTEM) member and chapter leader 2022-2023
 - Maintained weekly meeting for queer students to express solidarity, discuss classroom queerphobia, and cooperate on work.
- Healthy Masculinities discussion group leader 2019-2022
 - Planned and led regular conversations on participants' experiences of their masculinities to develop feminist consciousness.
- Criminal Justice Reform Club 2020-2021
- Math Club 2016-2020
- Computer Science Club 2015-2019
- Sociedad Honoraria Hispánica 2017-2019
- Science Olympiad Club 2016-2017
- Robotics Club 2012-2015

Skills

- Tutoring computer science, physics, chemistry, and math
 - Answered classmates' questions during work time and after class whenever I could throughout high school and college.
 - Was periodically hired for independent, one-off tutoring sessions in introductory physics and Java programming.
- LaTeX
- HTML and CSS
- Java and Python
- Excel
- Basic proficiency in Spanish and German
- Basic chemistry lab skills