EDISON HAUPTMAN

CURRICULUM VITAE

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EDUCATION

Ph.D. in Mathematics Aug 2021 - May 2027
University of Pittsburgh: Pittsburgh, PA
Thesis: Simultaneous Bootstrap Percolation in Small-World Networks with High Clustering
Advisor: Hung-Hsu (Edward) Chou, Ph.D.
Expected Defense: May 2027

M.A. in Mathematics Aug 2021 - Dec 2025
University of Pittsburgh: Pittsburgh, PA

B.S. in Applied Mathematics Aug 2017 - May 2021
Marist University (fmr. Marist College): Poughkeepsie, NY

B.S. in Data Science & Analytics Aug 2017 - May 2021
Marist University (fmr. Marist College): Poughkeepsie, NY

TEACHING EXPERIENCE

(Key: F = Fall, S = Spring, Su = Summer)

University of Pittsburgh: Teaching Fellow 2021 - present

Instructor of Record (6 terms, 7 total sections)

College Algebra 1	F 26
Business Calculus	S 26
Analytic Geometry & Calculus 1 (2 sections)	F 25
Analytic Geometry & Calculus 2 (3 sections)	Su 24, Su 23, Su 22 6-week-1

Teaching Assistant

Prep for Scientific Calculus (2 sections)	S 25, F 21
Business Calculus (3 sections)	S 23, F 22
Analytic Geometry & Calculus 1 (10 sections)	F 24, S 24, F 23, S 23, F 21
Analytic Geometry & Calculus 2 (2 sections)	S 25, F 24
Analytic Geometry & Calculus 3 (2 sections)	F 24, S 24
Intro Theory of 1-Variable Calculus	Su 22 6-week-2

Mentorship

Mentor: CMU-Pitt Math Directed Reading Program (Mathematical Biology)	F 26
TA Mentor (graduate TAs): Department of Mathematics	Su 26
Math Assistance Center Assistant (graduate TAs): Department of Mathematics	S 26
Mentor: CMU-Pitt Math Directed Reading Program (Combinatorial Optimization)	F 25
TA Mentor (graduate TAs): Department of Mathematics	Su 25

Grader

Combinatorial Mathematics	F 26
An Introduction to Optimization (2 sections)	S 25, F 22

AWARDS AND HONORS

2025 Teaching Assistance Excellence Award
University of Pittsburgh Department of Mathematics

2024 Elizabeth Baranger Teaching Award
University of Pittsburgh Dietrich School of Arts & Sciences

2023 Teaching Assistance Excellence Award
University of Pittsburgh Department of Mathematics

GRANTS

2025 Hauptman, Edison; Heck, Lizzie; Sampaio, Rafaella; Wheeler, Jeffrey.
University of Pittsburgh Discipline-Based Science Education Research Center

2024 Hauptman, Edison; Wheeler, Jeffrey.
University of Pittsburgh Discipline-Based Science Education Research Center

PEER-REVIEWED PUBLICATIONS

2024 Pittsburgh Interdisciplinary Mathematics Review.
"Why Isn't There An Inverse Quotient Rule?" April 12

TALKS AND PRESENTATIONS

Invited Talks

2026 Virginia Commonwealth University Discrete Math Seminar, Oct. 14.
"Notes on Pushing Blocks from outside a Square Grid"

2025 Marist University Colloquium, Feb. 28.
"An Undergrad-Friendly Journey through Graduate Level Combinatorics"

2023 Westminster College Speaker Series, Oct 6.
"How to Solve a Minecraft Puzzle Like a Mathematician"

2022 Marist University Colloquium, Oct. 7.
"Explaining the Math of Queer Relationship Dynamics"

Contributed Talks

2027 JMM 2027: AMS Special Session on a Tribute to Michael Barrus, II, Jan 12.
"4-Neighbor Bootstrap Percolation in King's Graphs"

2027 JMM 2027: AMS Special Session on Alternative Grading and Assessment in Math Education, I, Jan 8.
"Supplementing Standards-Based Grading with Engagement Points"

2026 AMS Eastern Sectional Meeting: Contributed Paper Session, I, Oct. 3
"4-Neighbor Bootstrap Percolation in King's Graphs"

2026 SEISMIC 2.0 Kickoff, Pre-Conference on Generative AI, May 19.
"Student (Mis)-Use of Gen"AI" for Practice"
2026 MAA Allegheny Mountain Section, Mar. 28.
"Standards-Based Grading in Large-Enrollment Calculus: Practices and Lessons for Students/Faculty"
2026 JMM 2026: Spectra Special Session on Research by LGBTQ+ and Allied Mathematicians, II, Jan. 5.
"Telling the story of the Stable (Queer) Marriage Problem"
2024 MAA MD/DC/VA Section, Apr. 27.
"Explaining the Math of Queer Relationship Dynamics"
2024 MAA Allegheny Mountain Section, Apr. 5.
"Why Isn't There An Inverse Quotient Rule?"
2023 MAA Allegheny Mountain Section, Mar. 31.
"Explaining the Math of Queer Relationship Dynamics"
2022 Binghamton University Graduate Conference in Combinatorics, Algebra, and Geometry, Nov. 6.
"Explaining the Math of Queer Relationship Dynamics"

Campus and Departmental Talks

2026 University of Pittsburgh Discipline-Based Science Education Research Center Seminar, Aug. 24.
"Providing Interdisciplinary Projects to Large-Enrollment Calculus 2 Courses: Practical Implementation" (jointly presented w/ Rafaella Sampaio)
2026 University of Pittsburgh Discipline-Based Science Education Research Center Seminar, Jan. 12.
"Providing Interdisciplinary Projects to Large-Enrollment Calculus 2 Courses" (jointly presented w/ Lizzie Heck)
2025 University of Pittsburgh Discipline-Based Science Education Research Center Seminar, Sep. 8.
"Contract Grading in Calculus 2, Lessons Learned for Large-Enrollment Classes"
2025 University of Pittsburgh Discipline-Based Science Education Research Center Seminar, Feb. 10.
"Contract Grading in Calculus 2, Coordinating Student Freedom"
2024 University of Pittsburgh Math Graduate Student Seminar, Oct. 4.
"How to Give Undergrad-Friendly Talks and Why it Matters"
2024 University of Pittsburgh Discipline-Based Science Education Research Center Seminar, Jul. 1.
"Contract Grading in Calculus 2, Now With Mastery Grading!"
2024 University of Pittsburgh Discipline-Based Science Education Research Center Seminar, Jan. 29.
"Contract Grading in Calculus 2"
2023 University of Pittsburgh Math Department Teaching Seminar, Nov. 7.
"Lessons Learned from Contract Grading in Calculus 2"
2021 University of Pittsburgh Math Club, Sep. 21.
"Bayes' Theorem: A Cornerstone of Rationality"

Other

2026 Grading for Growth Blog, Sep. 14.
Guest blog post: "Supplementing Standards with Engagement Points"

RESEARCH EXPERIENCE

2026 - present 4-Bootstrap Percolation on King's Graphs
with N. Bushaw and J. Wheeler

2024 - present Project Repository for Pitt's Calculus Courses
with L. Heck and R. Sampaio

2024 - present Simultaneous Bootstrap Percolation in Small-World Graphs with High Clustering
Advisor: Hung-Hsu Chou

PROGRAMMING/SOFTWARE EXPERIENCE

Python
Numpy, SciPy, MatPlotLib, NetworkX
R/RStudio
Git/GitHub
LaTeX
Microsoft Word, Excel, etc.

SERVICE TO PROFESSION

2023 - present Referee Board: Pittsburgh Interdisciplinary Mathematics Review
Spring 2026 Participant: National STEM Teaching Fellowship (provided classroom data)

DEPARTMENTAL AND UNIVERSITY SERVICE

2023 - present Coach: APPE Ethics Bowl, University of Pittsburgh Team
2022 - present Member: Mathematics Graduate Student Organization
(President 2024 - 2025)
2022 - present Volunteer: University of Pittsburgh Integration Bee
(hosted every March)
2024 - 2026 Member: Dietrich School of Arts & Sciences Grad Council
2025 - 2026 Co-Chair: Arts & Sciences Graduate Student Organization Elizabeth Baranger Teaching Awards Committee
2023 - 2024 Member: Dietrich School of Arts & Sciences Planning & Budget Committee
2021 - 2022 Member: Provost's Award for Excellence in Doctoral Mentoring Selection Committee

PROFESSIONAL EDUCATIONAL DEVELOPMENT

2026 Participant: National STEM Teaching Fellowship
2025 Participant: MAA OPEN Math Workshop, "Implementing Evidence-Based Teaching Practices At Scale"
2024 Completed Course: University of Pittsburgh Achievement in Pedagogy Badge
(Pedagogy, Professional Development, DEI)

OUTREACH

2026	TA: Pittsburgh Girls' Summer Math Camp (5 day camp in August) (Recognized by the directors with the Excellence in Outreach Award)
2024, 2026	Volunteer: Pittsburgh High School Integration Bee (hosted by University of Pittsburgh every April)
2023 - 2024	Coach: Pittsburgh Oakland Table Tennis Club Summer Camp (4 day camp each summer)

OTHER PROJECTS

2023 3Blue1Brown's Summer of Math Exposition 3
YouTube Video: "Can You Solve This Minecraft Piston Puzzle?", Aug. 18.

2022 3Blue1Brown's Summer of Math Exposition 2
YouTube Video: "Why Queer Relationship Dynamics are Harder: The Stable Marriage Problem", Aug. 16.

PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS

American Mathematical Society
Mathematical Association of America
SEISMIC Collaboration
Spectra