

Paul Tee

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Portfolio: <https://my-personal-page-a5q4.vercel.app/>
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EDUCATION

University of Connecticut - Storrs, CT M.S. Computer Science, Ph.D. Mathematics	Graduation: May 2026 GPA: 3.98/4.0
McGill University - Montreal, Canada M.S. Mathematics	May 2021 GPA: 4.0/4.0
University of Texas at Austin - Austin, Texas B.S. Mathematics	May 2019 GPA: 3.81/4.0

SKILLS

- Languages: Python, Java, JavaScript, Typescript, Node.js, Express, HTML, CSS, Swift.
- Frameworks: React, SwiftUI, AVFoundation.
- Technologies: Git, Jest, Cypress, Postman, Figma, AWS.

WORK EXPERIENCE

Mathematical Researcher & Teaching Assistant <i>University of Connecticut and McGill University</i>	Sept 2019 – Present
<ul style="list-style-type: none">• Published two papers in high-impact journals, <i>Journal of Differential Geometry</i> and <i>Colloquium Mathematicum</i>.• Won a combined \$40,000 of research grants for geometric analysis at University of Connecticut with Lan-Hsuan Huang, and for topology at McGill University with Piotr Przytycki.• Coordinated calculus and discrete math for over 500 concurrent students, and led 5 graduate teaching assistants.• Mentored students in recitation with a 95% retention rate. Averaged 4.6/5 on teaching evaluations, and the average student passed with a grade of “B+”.	
Personal Tutor for Computer Science & Math <i>Wyzant</i>	June 2019 – Present
<ul style="list-style-type: none">• Conducted one-on-one tutoring sessions with upper level undergrad and graduate students in computer science and math courses. Boosted the student’s grade by one letter grade on average. Maintained a 4.8/5 rating over 200+ sessions.	

PROJECTS

Virtual Sampling Machine <i>Swift, SwiftUI, AVFoundation</i> iOS Music Sampler	July 2024 – Present
<ul style="list-style-type: none">• Created a digital audio workstation that enables users to upload songs from their Apple Music Library and modify them with standard audio effects. Conducted in-depth research, compiling over 60 pages of documentation on audio signal processing libraries.• Discovered and reported two bugs in Apple’s decade-old audio processing library to Apple’s support team. Apple is actively investigating the bugs.• Prototyped UI with Figma and conducted user surveys to refine the experience, incorporating test-driven feedback for continuous improvement. Designed with neuromorphic principles to create a sleek, polished interface.	
Graph Algorithms Visualization <i>React, Typescript, JavaScript, Python</i> Full-stack web app	Jan 2024 – May 2024
<ul style="list-style-type: none">• Developed an innovative educational app, that pairs an algorithm’s pseudocode with its visualization on a user-generated graph for a highly interactive learning experience.• Built a responsive, user-friendly front-end with React, leveraging Material UI and Ant Design to create a modern, intuitive interface. Maintained high code quality with continuous unit testing using Jest.• Built a RESTful API with Node.js and Express to handle graph data processing, executing Python scripts server-side and returning algorithm results in JSON format.	

RELEVANT COURSEWORK

- Machine Learning, Cryptography, Quantum Computing, Probability, Statistics, Data Structures and Algorithms
Graph Theory, Linear Algebra, Discrete Math.