

WILLIAM G. TOROUS

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Education

University of California, Berkeley, Berkeley, CA
Doctorate in Statistics

June 2026 (Expected)

Massachusetts Institute of Technology, Cambridge, MA
Bachelor of Science in Mathematics with Computer Science
Minor in Literature

June 2021

- Coursework: Mathematical Statistics (Graduate), Design and Analysis of Algorithms, Signal Processing, Genetics, Introduction to Machine Learning, Theory of Computation, Real Analysis, Embedded Systems
- GPA: 4.8/5.0

Work Experience

MIT Math Department, Cambridge, MA
Undergraduate Research Intern

January 2020-June 2021

- Researched novel methodology using optimal transport to estimate causal effects, resulting in the publication “An Optimal Transport Approach to Causal Inference”

Beth Israel Deaconess Division of Digital Psychiatry, Boston, MA
Undergraduate Research Intern

June 2019-August 2019

- Developing a LSTM recurrent neural network for predicting the anxiety scores reported by schizophrenic patients through the LAMP mobile app
- Researched statistical approaches for imputing missing survey results based on other reported factors

MIT Systems Architecture Group, Cambridge, MA
Undergraduate Research Intern

June 2019-August 2019

- Investigated increasing solution quality, improving runtime, and quantifying robustness of a genetic algorithm and a simulated annealing approach to allocating broadband delivery of telecommunications satellites

Laminar Research (X-Plane Flight Simulator), San Francisco, CA
Software Engineering Intern

May 2018-August 2018

- Maintained and updated a gateway for over 60,000 users to upload and download scenery files for use in Laminar Research’s flight simulation software X-Plane 11

Leadership Experience

WMBR Radio, MIT
Volunteer Coordinator

February 2018-August 2021

- Served on the management board of an all-volunteer radio station
- Debugged the station’s volunteer reporting web service

Skills and Interests

Skills: Python, R, Excel VBA, JavaScript, MySQL, Adobe Illustrator, audio and video production

Interests: Aviation, music, bass guitar, cooking, cartography, crossword puzzles