

DIEGO A. TEMKIN

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EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

Anticipated SB in Urban Science and Planning with Computer Science *GPA: 5.0* Sep 2022 – May 2026
Relevant Coursework: 6.101 (Fundamentals of Programming), 1.097 (Intro to CEE Research), 17.309 (Science, Technology, and Public Policy)

South Texas ISD Science Academy

Mercedes, TX

Summa Cum Laude *GPA: 4.0/4.0 UW, 104.85/100 W* Aug 2018 – May 2022

SKILLS, HONORS, AND INTERESTS

Programming Languages: Python, Java, C#, JavaScript, MATLAB
Languages: English (Native), Spanish (Native)
Honors: QuestBridge NCM Scholar, HSF Scholar, AP Scholar with Distinction
Interests: Public Policy, Machine Learning, Data Science

WORK EXPERIENCE

Plasma Science and Fusion Center at MIT

Cambridge, MA

Undergraduate Researcher

Feb 2023 – Present

- Create a digital adaptation of the long-standing Alcator C-Mod tokamak experiment, which was operated for 25 years and took 50k shots (instance) of plasma experiments.
- Construct a generative surrogate model that can predict plasma beta (a measurement of plasma pressure scaled to magnetic pressure) using dimensionless parameters, with the hope of evaluating the model's applicability to future experiments as a fast predictor of performance.
- Learn about the practical applications of machine learning in plasma science and contribute to this field through hands-on research and experimentation.

MIT Libraries

Cambridge, MA

Student Worker

Sep 2022 – Present

- Support the proper functioning of libraries on MIT's campus through shelving and paging various materials essential to the entire MIT community.
- Catalogue and provide for the circulation of books and other academic resources.
- Present a positive face for the MIT Libraries through desk and other clerical duties.

Nepf Environmental Fluid Mechanics Laboratory

Cambridge, MA

Undergraduate Researcher

Jan 2023 – Feb 2023

- Designed a flume aimed at teaching the public about water wave mechanics and the way coastal ecosystems like mangrove forests, salt marshes, seagrass meadows and oyster reefs protect our shorelines in the face of global climate change.
- Collaborated with fellow researchers to create a succinct and informative presentation for the benefit of the entire MIT Civil and Environmental Engineering department.
- Developed new skills in designing and fabricating experiments, analyzing and visualizing scientific data, and communicating valuable scientific research to the public.

ACTIVITIES

Dormitory Council Residence Exploration Chair

Nov 2022 – Present

Coordinate and organize all dormitory-wide events during Orientation Week and Campus Preview Weekend (CPW), improving the experience for thousands of current and incoming students.

Undergraduate Association Election Commission

Oct 2022 – Present

Operate elections for over 1000 first-years at MIT to achieve proper student government representation.

MIT Educational Studies Program Splash Teacher

Sep 2022 – Present

Administered and planned student-run classes for local high-school students in educational and informative topics to spark interest in various subjects, such as natural language processing and Norse mythology.

East Campus Dormitory Election and Website Committee

Sep 2022 – Present

Engage in student government in the dormitory system through membership on committees, maintaining relevance and advancing progress for all residents.