

Greta Reitenbach
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Education

Massachusetts Institute of Technology **Expected May 2027**

BS in Artificial Intelligence and Decision Making; Business Analytics

Activities and Societies: Air Force ROTC, Kappa Alpha Theta, Tech Catholic Community, StartMIT Entrepreneurship Program, Science Policy Initiative, MIT Latin Dance Club

Relevant Coursework: Optimization Methods, Machine Learning, Linear Algebra and Optimization, Analytics of Operations Management, Discrete Mathematics for Computer Science, Applied Probability and Statistics, Algorithms, Communicating with Data

Teaching and Advising

Associate Advisor **August 2025 - Present**

MIT Schwarzman College of Computing

- Ensured that students and faculty are aware of available resources about major and Institute requirements, the department, and MIT at large.
- Served as a resource for both faculty advisors and undergraduate advisees.
- Helped students to construct three-year plans and facilitated strong relationships between undergraduates and their faculty advisors.

Instructor, Beautiful Patterns Bootcamp **January 2025**

MIT – Mexico Global Teaching Labs, Aguascalientes, Mexico

- Designed and delivered an intensive 10-day bootcamp for 18 young women aged 13-17, focused on empowering them through foundational web development skills.
- Created engaging and interactive lesson plans for HTML, CSS, and JavaScript, culminating in hands-on projects where students built their own websites and web applications.
- Introduced algorithms such as stable matching, binary search, and sorting in a way that combined theoretical depth with practical coding challenges.
- Facilitated workshops that emphasized problem-solving and collaboration, inspiring students to take ownership of their learning journey.
- Collected feedback from participants and adapted teaching strategies to improve comprehension, resulting in a 100% completion rate with high levels of engagement.

Lab Assistant **September - December 2024**

Fundamentals of Computer Science, Massachusetts Institute of Technology

- Actively engaged with a large class of over 300 students, providing hands-on assistance with exam preparation and problem sets.
- Conducted one-on-one checkoff sessions, ensuring students mastered core programming concepts such as recursion, data structures, and algorithm efficiency.
- Promoted an inclusive learning environment by addressing the diverse learning needs of students through adaptive explanations and supplemental resources.

Research Experience

Undergraduate Researcher

January 2025 - Present

Bringing Computation to the Climate Challenge Project, MIT EAPS

- Gathered and preprocessed historical temperature data from multiple sources (e.g., weather station measurements, satellite retrievals, and reanalysis products).
- Implemented statistical analyses, such as linear regression, to test the consistency of observed temperature anomalies with theoretical predictions.
- Reviewed relevant literature on climate modeling, statistical methods, and observational temperature records to contextualize findings.

Undergraduate Researcher

September 2023 - January 2024

Affective Computing Group, MIT Media Lab

- Led development of wearable data preprocessing pipeline for smartwatch data, enhancing accuracy of sleep monitoring.
- Designed ML models to predict deep sleep patterns, advancing understanding of sleep health.
- Collaborated with MIT Media Lab researchers on a project for new digital biomarkers and interventions to optimize sleep and mental wellbeing.
- Contributed to research aimed at developing validated sleep biomarkers linked to mood and cognition

Honors and Awards

Air Force ROTC Field Training Graduate	June 2025
Boston Marathon Ruck Age Group Winner	April 2025
Air Force ROTC Achievement Award	May 2024; December 2024
Air Force ROTC Type 1 Scholarship Recipient	Ongoing
MIT Congressional Visit Days Representative	April 2024
Bayer Top Young Scientist Award	May 2023
Academy of Science St. Louis – Honors Division Finalist	May 2023

National Merit Finalist	October 2022
West Point Summer Leaders Experience	June 2022
National Honor Society Scholar	January 2021 – June 2023

Professional Experience

Website Developer, National Headquarters <i>i5 Space, STARCOM, United States Space Force</i>	August 2025 – Present
<ul style="list-style-type: none"> Developed and maintained the official website for a national student organization operating in conjunction with the United States Space Force's Space Training and Readiness Command. Gathered and updated information across i5 projects to ensure simple and streamlined access to resources. Maintained access to information for programs including mentorship, professional development, cyber warfare, and artificial intelligence for 67 detachments across the country. 	
Artificial Intelligence and Machine Learning Intern <i>Presurgeo, Breukelen, Netherlands</i>	June – August 2025
<ul style="list-style-type: none"> Conducted research on state-of-the-art AI/ML models and adapted them for real-world medical applications. Collaborated with the development team to integrate AI solutions into SkeletonPlanner, a machine learning method for 2D-3D image reconstruction. Analyzed medical imaging data and trained models for tasks such as landmark detection, risk assessment, and surgical planning. Tested and validated algorithms using real-world and synthetic datasets to ensure robustness and accuracy. Documented methodologies and findings, contributing to the team's ongoing development and knowledge base. 	
Data Research Analyst <i>River City Community Development Center</i>	May – August 2024
<ul style="list-style-type: none"> Gained understanding of current digital platforms to recommend best practices that match staff capacity, save time, increase helpful automation and increase organizational efficiency. Became proficient in Salesforce's Program Management Module, and NonProfit Success Pack and basic salesforce functions and increase familiarity with data solutions that Salesforce has developed to benefit nonprofits in their data collection. Built dashboards for systematic collecting, storing, analyzing, and presenting R CITY data for the purpose of grant management, communications and program analysis. 	

- Implemented qualitative research methodologies (interviews, surveys, analysis, etc.) to understand the nature of the company's programmatic data tracking and current methods of collecting and reporting findings to stakeholders.

Lead Data Analyst

January 2022 – April 2025

California Political Campaigns

- Strategized and executed data-driven initiatives for Congressional and state campaigns, achieving 3rd place in a heavily Democratic district.
- Utilized GOP's data infrastructure and Campaign Sidekick to segment voter files and create targeted lists, resulting in an increase in volunteer engagement.
- Trained and managed teams of volunteers, leading to a significant improvement in canvassing efficiency.
- Recognized by San Mateo County GOP organizations for expertise in data analysis, receiving requests from multiple other campaigns for assistance.

Waitress and Hostess

July 2022 – August 2023

Salt and Smoke Restaurant

- Efficiently handled guest orders in a busy two-story restaurant near the St. Louis Cardinals' stadium, processing hundreds of orders per shift.
- Coordinated reservations and seating arrangements, optimizing restaurant capacity during peak hours with wait times often exceeding two hours.
- Provided recommendations on menu and bar items, resulting in increased sales and customer satisfaction.
- Collaborated with a team of 10+ servers and multiple food runners, bussers, and hosts to ensure smooth operations and timely service

Technical Skills

- Programming Languages: Python, Julia, SQL, Web Programming, Git
- Programming Packages: PyTorch, Pandas, NumPy, TensorFlow, SimpleITK, Matplotlib
- Other: GitHub, Salesforce Lightning, Prompt Engineering, 3D Slicer

Certifications and Professional Development

Professional Certificate in Python Data Science

March 2022

Salesforce Advanced Administrator

August 2024