

# AYDAN J. GERBER

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## EDUCATION

### Cornell University, College of Agriculture and Life Sciences

*Candidate for Bachelor of Science in Information Science; Concentration in Data Science*

**Ithaca, NY**

*Expected, May 2028*

### Iona Preparatory School

**GPA: 98.75 | SAT: 1570** (Verbal: 790, Math: 780)

**New Rochelle, NY**

*Graduated, June 2024*

## PROFESSIONAL EXPERIENCES

### theCoderSchool

*Computer Science Instructor*

**Scarsdale, NY**

*May 2024 – August 2024*

- Instructed 60 K-12 students in coding through private lessons and group classes resulting in increased understanding of computer science
- Introduced engineering concepts through Lego robotics such as gears, motors, and piston designs resulting in a deeper understanding of physics
- Fostered coding skills using Scratch and Python through hands-on interactive coaching and programming concentrating on game development

### Iona University

*Teaching and Lab Assistant, Physics 101*

**New Rochelle, NY**

*June 2023 – August 2023*

- Facilitated 12 lab setups, devised a detailed kinematics experiment, and created a comprehensive 20 page instructional manual with diagrams
- Guided 15 students through assignments in kinematics, forces, and energy resulting in increased understanding of material and concepts
- Repaired old lab equipment and assisted students throughout lab setup and execution allowing for better conceptual understanding

## RESEARCH EXPERIENCES AND ACTIVITIES

### Cambridge University Press & Assessment

*Independent Researcher & Author*

**Remote**

*September 2022 – May 2023*

- Applied topic modeling with Latent Dirichlet Allocation to machine learning study on social media discourse with a focus on sustainability
- Found insights into how consumers and businesses interact with sustainability topics on social media and key trends in discussion on “X”
- Highlighted the dominant topics of discussion such as global corporate sustainability practices, environmental activism, and green technology
- Paper published in Environmental Data Science journal by Cambridge University Press, DOI: 10.1017/eds.2024.4

### Cornell Fintech Club

*Financial Analyst*

**Ithaca, NY**

*September 2024 – present*

- Evaluate and present pitches on private tech/SaaS companies ( $EV < \$1b$ ) to invest in and determine appropriate exit strategy for investors
- Collaborated on FinSight AI, a fintech chatbot leveraging Retrieval-Augmented Generation (RAG) to deliver financial information to users
- Achieved a 90% accuracy in delivering up-to-date financial news and analysis and interviewed 20+ potential users to understand pain points

### Student Activities Funding Commission

*Financial Consultant*

**Ithaca, NY**

*September 2024 – present*

- Offer financial planning, compliance, and logistics services by allocating \$2M+ of funds across 900 on-campus organizations within Cornell
- Collaborate with Cornellian governance streamlining \$400k distribution among administrative organizations, improving student and campus life

### Manhattanville College

*Research Assistant*

**Remote**

*June 2023 – August, 2023*

- Conducted statistical analysis on Barbuda’s vegetation comparing data from before the 2017 hurricane to 2019 post-hurricane Irma figures
- Identified a 15% decrease in overall native Barbuda vegetation and observed the introduction of 7 new species to the island due to hurricane
- Analyzed vegetation distribution and found that the hurricane led to a shift in more resilient and drought resistant plants for optimal survival

### Cornell Data Science Project Team

*Team Member*

**Ithaca, NY**

*September 2024 – present*

- Collaborated on a project to develop a machine learning model predicting state-level SAT scores using socioeconomic and demographic data
- Applied data preprocessing and visualizations improving prediction accuracy with a 15% reduction in error compared to baseline models
- Leveraged Python and Pandas to build and evaluate supervised learning models through hyperparameter tuning and cross-validation

### Westchester Green County USA

*Executive Board Member & Social Media Director*

**Westchester, NY**

*March 2023 – June 2024*

- Developed strategies for net zero carbon footprints and managed recruitment via social media leading to a 200% increase in followers
- Invited to speak at the Green New Deal for Public Schools Conference in Washington, D.C on the sustainability initiatives of WGC USA
- Recruited representatives from 7 high schools throughout Westchester to bring WGC initiatives to their schools and present their impact

## AWARDS, SKILLS, & INTERESTS

**Awards:** Regeneron Westchester Science & Engineering Fair (WESEF): 2<sup>nd</sup> overall & Ricoh Sustainable Development Award winner, Westchester-Rockland Junior Science & Humanities Symposium 3<sup>rd</sup> place: Regional Speaker Competition in Behavior III Category, First Honors, AP Capstone Diploma, AP Scholar with Distinction

**Relevant Skills:** Python, Flutter/Dart, Communication, Leadership

**Interests:** Varsity Tennis (Team Captain), Sustainability, Technology, Philosophy, Poker