

# Jason D'Amico

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## Education

**Union College** (Schenectady, New York): B.S. in Computer Science, B.A. in Sociology (**GPA: 3.98**) **June 2024**

- **Relevant Courses:** Data Structures, Algorithms, Regression Analysis, Qualitative Social Analysis, Big Data Analytics
- **Study Abroad: University of York** (York, England): Concentration in Sociology **Sept. 2022-Dec. 2022**

## Technical Skills

Python, pandas, Git, R, data analysis, machine learning, Java, HTML/CSS, REST APIs, React, SQL, Tableau.

## Technical Experience

**Undergraduate Data Visualization Research Fellow**, Union College (Schenectady, New York) **June 2022-Aug. 2022**

- Researched the sociological influence on visualization designers and how viewers interpret the data represented.
- Developed a visualization project in D3.js and performed analysis on the relationship between racial demographic data from the United States Census and cancer risk from industrial pollution across geographic regions.

**Data Science Civic Digital Fellow**, General Services Administration (Washington, D.C.) **June 2021-Aug. 2021**

- Used Python to develop and implement automated business intelligence from agency performance data ([repository](#)).
- Conducted user interviews on how to best tailor business intelligence to the needs of top-level agency executives.
- Presented the project to Office of Management and Budget executives, which influenced their decision to implement my prototype into production.

**Full Stack Development Intern**, LovEnergy LLC (Glenville, New York) **Dec. 2020-May 2021, Nov. 2021-Dec. 2021**

- Created a ReactJS application to simulate and report green energy forecasting for clients' building specifications.
- Linked client input from React form to back-end Java code that runs simulations via a Spring Boot-based REST API.

**Undergraduate Data Analytics Research Fellow**, Union College (Schenectady, New York) **June 2020-Sept. 2020**

- Built a machine learning model to predict enrollment, generating an expected class profile from a Union College applicant pool based on 8 years of past applicant data and [published a poster detailing its effectiveness](#).
- Used Python libraries (pandas, scikit-learn) to prepare data for analysis and develop the predictive model.

## Projects

**Using Measures of Women's Peace and Security to Predict Rates of Intimate Partner Violence** **March 2022**

- Performed regression analysis in JMP to predict rates of intimate partner violence across 170 countries ([repository](#)).
- Source data from Georgetown University's Women Peace and Security Index.
- Developed alongside a 14-page analysis paper as my final project for STA 264 (Regression Analysis) in winter 2022.

## Research Experience

**Gerrymandering Research Project**, Union College **Jan. 2022-Present**

- Assisting two professors with assessing and validating a new mathematical approach to proving gerrymandering.
- Providing technical insight on the most efficient means of data collection.
- Collecting data on geometric properties of voting districts by writing and running MATLAB scripts and R programs.

## Work Experience

**Maine Boys to Men**, Intern (Falmouth, Maine) **Aug. 2020-May 2021**

- Supported the development of workshops for high schoolers and adult men designed to end gender-based violence.
- Collaborated with the Portland Public School system on revising its Title IX policy implementation.
- Planned and facilitated weekly meetings of a council of high school students that inform the organization's work.
- Assisted in transitioning curriculum for educators and coaches to an online setting and facilitated curriculum delivery.

## Leadership Experience

**A More Equitable Union**, President and Founder **Sept. 2021-present**

- Founded a club to hold events intended to make Union more equitable and inclusive for people of all identities
- Networking with identity-based clubs on campus to hold collaborative events and improve campus-wide equity.
- Leading an executive board of 5 students by delegating responsibilities and maintaining regular communication.
- Collaborated with the Office of Intercultural Affairs, Black Student Union and the Sociology Club on events.