

# Alyssa Anastasi

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## EDUCATION

### University of Illinois Urbana-Champaign

Aug. 2021 – May 2025

*Bachelor of Science in Statistics and Computer Science, Minor in Public Health*

3.85/4.00

- Chancellor's Scholar, James Scholar, Dean's List '21, '22, '23, '24
- Relevant Coursework: Computer Systems & Algorithms, Artificial Intelligence, Database Systems, Statistical Learning & Modeling, Discrete & Data Structures

## EXPERIENCE

### STAT/CS 107 Course Assistant

Aug. 2022 – Present

*University of Illinois Urbana-Champaign*

*Champaign, IL*

- Recipient of the Spring 2024 Outstanding Computer Science Course Assistant Award
- Assist lab sections of 20 students and office hours on data science topics including probability, python, and pandas
- Enhance team productivity by streamlining homework review workflow through GitHub request management
- Doubled monthly website clicks to 15k and tripled impressions to 917k year-over-year by analyzing performance data using Google Search Console & Analytics and optimizing educational content strategy

### Biomedical Data Science Research Intern

May 2024 – Aug. 2024

*University of Wisconsin-Madison*

*Madison, WI*

- Integrated multi-source data to apply graph neural networks to predict effects of gene perturbations on expression
- Executed neural network explanation methods to evaluate validity resulting in 10% increase in model accuracy
- Analyzed feature importance and found node features influenced predictions more than graph structure
- Assessed effectiveness of explanation methods identifying stability issues and insights for improvement

### Undergraduate Research Experience in Statistics

Aug. 2023 – May 2024

*University of Illinois Urbana-Champaign*

*Champaign, IL*

- Conducted comprehensive data cleaning and preprocessing of NetCDF files using R
- Applied generalized linear models to discover key predictors of climate on disease in Bangladesh with 70% accuracy
- Created advanced data visualizations with ggplot2 to communicate trends in climate and rotavirus incidence

### Quality Analyst Intern

May 2023 – Aug. 2023

*AbbVie*

*Waukegan, IL*

- Executed 10 user acceptance testing scripts for novel TIBCO Spotfire dashboard tool
- Established monthly process for regression analysis of stability data using Minitab for new drug product
- Performed statistical analysis of quality data for 12 products using Excel and Minitab
- Achieved a 67% improvement in personal efficiency between first and second quality reports

## ACTIVITIES

### Illini Women's Basketball Data Analyst

Sep. 2024 – Present

*University of Illinois Urbana-Champaign*

*Champaign, IL*

- Designed Python web scraper to extract play-by-play data from basketball games
- Developed visualizations using ggplot to analyze lineup and player efficiency metrics
- Implemented data pipeline using both Python and R to efficiently generate post-game reports

### Statistics Department Ambassador

Aug. 2023 – Present

*University of Illinois Urbana-Champaign*

*Champaign, IL*

- Promote involvement in Statistics to incoming and current students through campus outreach events
- Provide leadership and guidance to underclassmen in Statistics through blog posts, panels, and mentorship

## SKILLS

**Languages:** Python, SQL, R, C/C++, HTML/CSS, Java

**Frameworks:** React, Node.js, Flask

**Tools:** Git, Docker, Google Cloud Platform, VS Code, RStudio, Jupyter Notebook

**Libraries:** PyTorch, pandas, NLTK, NumPy, Matplotlib, Seaborn