

# Owen W. Lloyd

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## EDUCATION

### The Pennsylvania State University | Schreyer Honors College

*Eberly College of Science* | B.S. in Mathematics and B.S. in Data Science (Statistical Modeling)

*College of the Liberal Arts* | B.S. in Economics

University Park, PA

Class of 2023

GPA: 3.97/4.00

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## PROFESSIONAL EXPERIENCE

### Analog Devices Inc.

*Data Science Intern (OtoSense AI Team)*

Santa Clara, CA

May 2021 – Aug 2021

- Designed a machine learning pipeline for fault detection with customer data, leveraging spectral projectors, centroid smoothing models, and random forests to build classification models and visualization tools
- Spearheaded the design of new smart-chunking systems to allow for only relevant data to be passed to audio classification pipelines, deploying a web-app to visually demonstrate the new functionality
- Contributed to the development of multiple Python packages including front, a package designed to expose Python objects to pre-built UIs, allowing for seamless integration of spectral data to web-hosted pipelines

### Atoptix Inc.

*Data Science Intern*

University Park, PA

Aug 2021 – Present

- Formulated a GPS-based algorithm designed to snap leaf-level location data obtained from sensors to ground truth tree locations, increasing the efficiency and accuracy of generated customer reports
- Applied machine learning techniques to develop a model to classify disease in orange and lemon crops using the light spectrum data of orange leaves, captured using our patented spectrophotometer sensor

### The Pennsylvania State University Tennis Center

*Tennis Instructor and Customer Service Representative*

University Park, PA

Jun 2018 – Oct 2019

- Attracted more than 200 college students to participate in tennis center clinics by planning and coordinating 4 different clinics in tennis/pickleball strategies, such as serve-and-volleying and the third shot drop

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## RELEVANT COURSEWORK AND PERSONAL PROJECTS

### Statistics and Mathematics

*Discrete Mathematics (FA '19), Real Analysis (SP '20), Linear Programs (FA '20), Data Science Through Statistical Reasoning and Computation (SP '21), Intro to Mathematical Statistics (SP '21), Numerical Analysis (FA '21), Mathematical Coding Theory (FA '21), Machine Learning for Data Analytics (FA '21)*

University Park, PA

### Reddit Comment Topic Classification Model

- Scraped data from 10 different subreddits, applying word-embedding, PCA, and XGBoost to develop a classification model to predict the subreddit of origin of any comment, resulting in a log-loss of 0.08025

University Park, PA

Apr 2021 – May 2021

### March Madness Prediction Analysis

- Utilized historical game statistics, Massey Ordinals, and an ELO rating system to implement a regularized logistic model to predict the winner of any March Madness game, resulting in a log-loss of 0.48592

University Park, PA

Feb 2021 – Mar 2021

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## LEADERSHIP EXPERIENCE

### Alpha Kappa Psi Co-ed Professional Business Fraternity

*Vice President of Finance*

University Park, PA

Feb 2020 – Present

- Refined professional, networking, and interviewing skills of 100 members through at least 20 events per semester including mock interviews, resume workshops, professional presentations, and information sessions regarding workplace etiquette, career path decision-making, and hard skills
- Collaborated with an inductee class of 20 to orchestrate joint professional, philanthropic, and social events

### Consultant Training Program

*Graduate*

University Park, PA

Jan 2020 – Apr 2020

- Polished public-speaking, communication, and critical-thinking skills to approach and solve consulting situations and problems presented at weekly, two-hour classes led by the Nittany Consulting Group
- Strategized in teams of 4 to complete real business cases using frameworks, PowerPoint, and presentation skills to deliver advice to the class regarding implementation strategy, production, and marketing

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## HONORS, LANGUAGES, TECHNOLOGIES, AND INTERESTS

**Honors:** National Merit Finalist, Dr. John L. Brown Memorial Scholarship, Academic Excellence Scholarship, Dean's List (4/4)

**Languages:** Proficient in Python (numpy, pandas, scikit-learn), R, Swift; Exposed to LaTeX, Mathematica, MATLAB, SQL, Java

**Technologies:** Familiar with GitHub, GitLab, Jupyter; Exposed to HTML, CSS, QGIS

**Interests:** Andy Murray, Science Fiction Novels, Hot Sauce, *MCU*, NYT Crossword, Riddles, Sixers Basketball, Wes Anderson Movies