Fiona Rex

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EDUCATION

Drexel University   Philadelphia, PA

Bachelor of Science in Data Science   (Expected Graduation: June, 2027)

(Major: Psychology, Focus: Data Science)

EXPERIENCE

Creativity Lab   Philadelphia, PA

Undergraduate Lab Assistant   (January 2024 – October 2025)

- Facilitated in the collection and analysis of data during early experimental design
- Studied how undergraduates with or without ADHD used intuition to solve problems
- Attended meetings and provided insights relating to implementation and statistical analysis
- Utilized R and Pavlovia for data collection and visualization

Quantitative Psychology and Statistics Lab   Philadelphia, PA

Undergraduate Lab Assistant   (September 2023 – May 2025)

- Assisted PhD candidates in the organization and collection of research materials
- Lead independent project studying correlations between adolescent brain development and socioeconomic status
- Attended meetings weekly and presented individual progress reports as well as providing feedback to peers
- Utilized R, Python, and general datamining techniques for data processing and analysis

PROJECTS

Computer Science Independent Study   Drexel University

Implementing Dynamic Type Contracts for the R Programming Language   March-June, 2025

- Implemented tooling allowing for the usage of formalized input and output contracts in R
- Researched methods and techniques for compiler construction
- Parsed, evaluated, and transpiled valid R source code into new medium
- Met with project advisor semi-weekly to discuss progress and discuss methods of implementation

TECHNICAL SKILLS

Programming Languages: Python   /   R   /   C++

Data Analysis Frameworks: Pandas   /   Tidyverse   /   Numpy

Quantitative Methodologies: Data Aggregation   /   Inferential Statistics   /   Data Cleaning

RELEVANT COURSEWORK

Statistics for Psychology I   /   Introduction to Information Systems   /   Human Centered Design Process and Methods

Calculus I   /   Advanced Programming Tools and Techniques   /   Introduction to Data Science Programming

ORGANIZATIONS

Saucon Valley Jazz Band - Saucon Valley High School (Sep 2021 – April 2023)