# Samuel D. Pekofsky

805-267-6067 | sampekofsky@gmail.com | linkedin.com/in/samuelpekofsky | pekofsky.github.io

## EDUCATION

**University of Wisconsin-Madison – 3.048 GPA**                                          Madison, WI
*Bachelor of Science in Data Science, Minor in Computer Science*          *September 2021 – May 2025*

## EXPERIENCE

**Open Source Program Office Intern, clubSandwich**                    February 2025 – Present
*University of Wisconsin-Madison*                                                         *Madison, WI*
- Contributed to the open source R Package clubSandwich
- Implemented new features, wrote unit tests, and updated documentation

**Senior Camp Counselor**                                July – August 2023, June – August 2024
*YMCA of Greater New York*                                                              *New York, NY*
- Worked with youth ages 4-12 to create a memorable traditional day camp experience
- Led activities, created lesson plans, and guided campers through frequent outdoor trips
- Mentored and managed junior counselors

**STEM Camp Instructor**                                                        July – August 2022
*Launch Math + Science Centers*                                                         *New York, NY*
- Created a welcoming and engaging experience teaching STEM topics to 4-6 year-olds
- Guided campers through interactive lessons and hands-on projects
- Mentored and managed counselors in training

**Office Staff**                                                            January 2019 – April 2021
*TaxpayerServices NYC, Inc.*                                                            *New York, NY*
- Organized client documents, answered calls, and responded to emails
- Set up and maintained technology

## PROJECTS

**Volcano Databases** | *SQL, MongoDB, JSON*                          November – December 2024
- Designed a relational database of volcanoes, their eruptions, and other historical data
- Implemented this database design and loaded in data with MySQL, including JSON schemas
- Transferred data and database structure to MongoDB, including updated JSON schemas

**Deep Learning for Classifying Images** | *Python, PyTorch, Git, GitHub*          March – May 2025
- Created a hybrid CNN-transformer model for image recognition
- Trained 12 variations of 2 image recognition models, compared results
- Coauthored a research paper style report of our findings from comparing the different models

**Exploration of Student Habit Data** | *R, Markdown*                                April 2025
- Performed PCA on student habit data
- Used creative visualizations of PCA results to observe trends

**Car Inventory App** | *Java, git*                                                Mar - April 2023
- Worked with a large group to plan and build a Java app for organizing and viewing car data
- Red black trees were used to allow for efficient reordering and searching
- Designed to be useful both dealerships and customers

**Many of my projects can be viewed and downloaded at pekofsky.github.io/projects**

## TECHNICAL SKILLS

**Languages**: Python, Java, SQL, R, HTML, Julia, Mongo
**Developer Tools**: Git, GitHub, VSCode, RStudio, Google Colab, Eclipse
**Libraries**: pandas, PyTorch, ggplot2, dplyr, devtools
**Frameworks**: testthat, JUnit, jekyll, Jupyter Notebooks, R Markdown