

Rich Pihlstrom

rlp70@georgetown.edu • +1 (612) 877-0105 • pihlstrom.georgetown.domains

EDUCATION

Georgetown University | Washington, DC

Expected Graduation May, 2025

M.S. - Data Science and Analytics

Cumulative GPA: 4.0

Description: Concurrently completing graduate coursework as an undergraduate senior through a B.A./M.S. program.

Georgetown University | Washington, DC

Expected Graduation May, 2024

B.A. - Computer Science ; Minors - Korean and Statistics

Cumulative GPA: 3.92

Coursework: Information Retrieval, Databases, Data Mining, Economics, Korean Language, Data Ethics

Honors & Awards: First Honors (Fall '20, '22, '23; Spring '22, '23), Second Honors (Fall '21; Spring '21, '23)

Yonsei University | Seoul, South Korea

June – August, 2022

Description: Attended Yonsei University's International Summer School. Took an Introduction to Korean Studies course and met regularly with a Korean language tutor at a local tutoring center.

SKILLS

Interpersonal: Leadership, Team Organization, Communication, Teaching, Project Management

Languages: English, Korean (Intermediate)

Technical: C++, Java, Python, R (Programming Language), Pandas, Adobe Illustrator, Gephi, Machine Learning

EXPERIENCE

Data Science Research Scholar | Massive Data Institute, Georgetown University

August, 2022 – Present

“Sentiment and Emotion as Tools for Forced Migration Prediction?”

August, 2023 – Present

- Expanded on previous research by comparing the individual performance of predictive sentiment and emotion models.
- Co-authored a publication detailing experimental methodology and results for 3 regions of forced migration.
- Employed advanced visualization techniques to aggregate and analyze over 60K migration indicator data points.

“Harnessing Big Data to Understand Forced Displacement: Sudan”

May, 2023 – August, 2023

- Performed research, supported by the National Science Foundation, that focused on predicting migration patterns.
- Compiled Google Trends data about migration-related search terms for over 15 countries using Python's Pytrends API.
- Developed and tested 10 unique machine learning classification models to label emotions for multilingual Tweets.
- Presented research to faculty at Georgetown University and the United Nations High Commissioner for Human Rights.

“Killer Robots, the Climate Scam, and Poisonous Vaccines”

August, 2022 – May, 2023

- Conducted research as a Fritz Family Fellow that explored how scientific misinformation spreads on social media.
- Collected Tweet information for over 80K publications related to climate change using Python's Tweepy API.
- Produced complex network graphs with over 100K nodes illustrating Twitter communities discussing publications.
- Designed and presented a poster of research results at three Georgetown University research showcases.

Club Fencing President | Georgetown University Fencing Club

June, 2022 – May, 2023

- Led a collegiate fencing team of 35+ students with varying degrees of fencing experience.
- Leveraged 10+ years of fencing experience to structure engaging practices and coach novice fencers.
- Expanded competitive participation by coordinating with administration to attend 7 competitive events.
- Managed a \$8,000 budget to purchase and distribute 300+ pieces of equipment, plan team transportation and lodging for competitions, and foster an exciting social environment.

Makerhub Staff | Georgetown University Maker Hub

September, 2021 – December, 2022

- Maintained an efficient, supportive, and creative environment for 250+ students and faculty.
- Revamped organizational processes as a part of a post-pandemic administrative transition.
- Learned skills such as 3D modeling and printing, graphic design, laser cutting, and embedded systems implementation.
- Designed and led a workshop for 10 students to produce a piece of art using a personally-produced template.