

ALEXANDER WOOD, PhD

Data Scientist

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EXPERIENCE

Research Fellow 2018 – Ongoing
Research Scientist 2017 – 2018
Biomedical & Clinical Informatics Lab

📍 University of Michigan

- Selected features, built and optimized machine learning classifiers for automated diagnosis using healthcare data such as imaging and medical coding.
- Worked independently and under supervision, providing reports and recommendations for overcoming technical obstacles.
- Communicated technical results to a diverse team of managers, investors, clinicians, engineers, and students.

Adjunct Lecturer 2015 – 2017
New York University, New York City College of Technology, & John Jay College of Criminal Justice

📍 New York, NY

- Python for Engineering, Computer Programming and Problem Solving with Python, and Calculus I & II, and more.

PROJECTS

AngioAid September 2017 – Ongoing
AngioInsight / University of Michigan

- Cleaned and pruned large, messy data to create a curated data set, discarding unusable or irrelevant data
- Engineered features to extract relevant and actionable information from data regarding the severity of stenosis, or thinning, of the coronary arteries
- Analyzed complex model results to discover actionable insights
- Increased model performance with a novel automated data cleaning pipeline

Cardiac Event Database June 2017 – Ongoing
Toyota Research / University of Michigan

- Designed and populated a SQL database unifying 500,000+ health records from 6+ sources into one cohesive data repository.
- Coded a pre-processing pipeline in Python to extract relevant features from text files containing clinical notes and heterogeneous patient records.

EDUCATION

Ph.D. in Computer Science 2018
The Graduate Center of the City University of New York

- Designed, implemented, and evaluated encryption-friendly adaptations of machine learning algorithms in C++
- Used object-oriented programming to create a homomorphic encryption library in C++.

M.Sc. in Mathematics 2015

B.A. in Mathematics 2012
DePaul University

SKILLS

🖨 Python git SQL Bash
T_EX Matlab

🧠 Problem solving Statistics
Machine learning Big data
Cloud computing
Data wrangling Databases
Algorithms

👁 Fast learner Communication
Translating tech jargon
Eye for detail

LEADERSHIP

LGBTQ+ Postdoc Circle 2019 – 2020

Co-organizer

📍 U. of Mich.

Doctoral Students' Council 2015 – 2017

Comp. Sci. Representative

📍 Grad. Center, CUNY