Rory M. Flynn

Data Science, Statistics, Machine Learning

Education

Masters of Computer Science Graduated: Dec. 12, 2020

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Location:

Phone:

Website:

Github:

Email:

University of Colorado, Denver

www.github.com/rmFlynn

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www.RMFlynn.co

Concentration: Data Science in Biomedicine, Read My Thesis

Bachelors of Science in Mathematics Graduated:Dec. 11, 2015

Metropolitan State University of Denver Minor: Chemistry

Concentration: Probability and Statistics Mi

Previous/Current Employment

Research Software Engineer Apr. 2021 - Now

Colorado State University

- Lead developer of DRAM. Creator of DRAM2 adding 75%+ new code, 30% new features, & 10x faster.
- Responded to and closed 100+ issues for lab maintained FOSS projects, on GitHub and Jera.
- Maintained Code base, Documentation, Code Quality Statistics, and CI on GitHub.
- Assisted in authoring publications for scientific journals, and presented work at scientific conferences.
- Worked with technical and nontechnical team members, to develop and communicate solutions.

Machine Learning Graduate Apprentice Jan. 2020 - Dec. 2020

University of Colorado Denver

• Designed an original algorithm, to address the challenge of imbalanced classes in genetic data.

Graduate Intern May 2019 - Aug. 2019

National Renewable Energy Lab (NREL)

• Developed python package for importing, cleaning, and transforming data from partner institutions.

Research Associate Mar. 2016 - Aug. 2018

BBC Research and Consulting

- Performed various system admin, automation, and scientific programming tasks using SQL, Perl, and VBA.
- Created complex web applications for data entry, tracking, and manipulation using R-shiny.
- Automated analysis, including regression, ANOVA, and Monte Carlo Simulation using R and Perl.

Publications, Presentations

In progress
First Author

R. M. Flynn, M. A. Borton, B. Bolduc, et al., "Dram2: Impoved annotating and functional profiling of genomes

with phylogenetic trees," 2023

Preprint Co-Author

I. Leleiwi, J. Rodriguez-Ramos, M. Shaffer, et al., "Exposing new taxonomic variation with inflammation – a murine model-specific genome database for gut microbiome researchers," bioRxiv, 2022. poi: 10.1101/...

Masters Thesis
First Author

R. M. FLYNN, "Predicting autism spectrum disorder from genome-wide association data with genetic balancing

generative adversarial network," Ph.D. dissertation, proquest, 2021

Skills

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Programming Languages.....

Python Expert 7+ years, all perposes use JavaScript Intermediate 4+ years, for visuals and UI C++ Intermediate 3 years, for low level tasks

Intermediate 4+ years, for data analysis

Operating Systems.....

Linux: Expert 9+ years heavy use

Deep understanding of the Linux tool kit, packaging formats, file structure, and ecosystem. Highly effective in a command line environment, with a long history using Docker, Vi/Vim, ssh and other system tools.

Windows: Intermediate 9+ years of use

Troubleshooting and programming, using tools like

PowerShell, ODBC, VBA, and WSL.

Disciplines.....

Distributed Computing
UI Design

Random Forests
Genetic Data Science
Technical Documentation

Other Software.....

Data Visualization

Git CL1/vim/ssh VirtualBox Docker TEX/LaTeX Excel/Other SnakeMake SLURM

Interests.....

Generative AI Data Abstraction Meta Learning
Probabilistic Graphs Data Rights & Privacy