Noah Nicol

Education

2023-09 - present

Biomedical Data Science, M.S.

University of Wisconsin - Madison

GPA: 3.8

2017-09 - 2022-05

Biomedical Engineering, Neurobiology, B.S.

University of Wisconsin, Madison

GPA: 3.6

Work History

2023-01 - present

Bioinformatic Scientist

Proteovista LLC.

- Analyzed data related to protein-binding DNA arrays, genome building technologies, high throughput mutagenesis strategies, and aptamer discovery.
- Authored python scripts to drive experimental and genomic product design
- Developed automated data visualization pipelines with Excel VBA and Python

2024-09 - 2025-03

Graduate Research Assistant

Biostatistics, Qiongshi Lu Laboratory

- Leveraged unsupervised learning of epigenetic data to improve predictive power of biological age estimations.
- Web scraping of GEO data to control for covariates in epigenetic data.

2022-06 - 2023-02

Research Specialist

Fujifilm Cellular Dynamics Inc

- Applied stem cell culture and laboratory techniques to develop robust cell culture processes and assays for iPSC derivation, genetic engineering, and characterization
- Authored Python scripts to assist in project data analysis
- Collected and presented statistically validated data
- Wrote protocols, technical reports, SOPs, and documentation

2021-06 - 2022-03

Radiology Tech Assistant

UW Health

- Provided comprehensive health care services, including exam review, visit preparation, patient education, and assistance with exams and procedures
- Operated various radiographic equipment and software

2018-12 - 2020-03

Research Assistant

Wisconsin Institute for Discovery

- Investigated regional patterning of pluripotent stem cells and characterized various central nervous system tissues
- Conducted data collection, authored a grant proposal and presented research updates

Personal Info

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LinkedIn
https://www.linkedin.com/in/noah-nicol-2a0163144

GitHub
https://github.com/N5cent28

Website
noahnicol.xyz

Programming

Python (NumPy, Pandas, Biopython, SciPy)
R (RStudio, Tidyverse)
MySQL
Visual Basic

Bioinformatics & DS:

Machine Learning (Scikit-learn, TensorFlow, Neural Networks)

Data Visualization (Matplotlib, Seaborn, ggplot2, Excel)

High-throughput Sequencing Data Analysis (NGS, RNA-seq)

Statistical Modeling (ANOVA, Regression, PCA, Clustering)

Laboratory Techniques

iPSC Cell Culture, Gel Electrophoresis, RT-qPCR, ICC, IHC, Flow Cytometry, Confocal Microscopy, Image Processing (ImageJ)

Publications

Modular derivation of diverse, regionally discrete human posterior CNS neurons enables discovery of transcriptomic patterns

Science Advances, 2022

https://doi.org/10.1126/sciadv.abn7430

7615 Genomic Consequences of GRHL2 Overexpression in ER+ Breast Cancer Cells

Journal of the Endocrine Society, 2024

https://doi.org/10.1210/jendso/bvae163.1809

Volunteering

2021-08 - present

Hoofer Sailing Club

I share my love of windsurfing, ice kiting, and sailing with club members

2018-04 - present

Ultimate Frisbee Coach

I organize youth ultimate day camps, assistant coach Madison West High School's varsity team, and participate in Madison Radicals sponsored youth events.

Selected Coursework

Statistics in Human Genetics
Applied ML in Healthcare
Machine Learning Theory
Bioinformatics 1
Stem Cell Bioengineering