

Noah Nicol

A detail-oriented team player who values organization, communication, and efficiency.

Work History

- 2024-09
- present
- Graduate Research Assistant**
Biostatistics, Qiongshi Lu Laboratory, Madison
- Leveraged unsupervised learning of epigenetic data to improve predictive power of biological age estimations.
 - Polygenic risk score pipeline automation
 - Web scraping of GEO data, enabling robust analysis with controlled covariates in genetic data.
- 2023-01
- present
- Bioinformatic Scientist**
Proteovista LLC., Madison
- Conducted data analysis related to protein-binding DNA arrays, genome building technologies, high throughput mutagenesis strategies, and aptamer discovery.
 - Authored numerous python scripts to drive experimental and genomic product design
 - Developed automated data analysis pipelines with Excel VBA and Python
- 2022-06
- 2023-02
- Research Specialist**
Fujifilm Cellular Dynamics Inc, Madison, WI
- 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, Madison, WI
- Provided comprehensive health care services, including exam review, visit preparation, patient education, and assistance with exams and procedures
 - Operated various radiographic equipment and software
- 2020-06
- 2020-11
- Lab Specimen Processing Associate**
Exact Sciences, Madison, WI
- Responsible for the receipt, accessioning, processing, and storage of patient samples
- 2018-12
- 2020-03
- Research Assistant**
Wisconsin Institute for Discovery, Ashton Lab
- 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

Email

noahryannicol@gmail.com

Phone

(608) 217-2631

LinkedIn

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

GitHub

<https://github.com/N5cent28>

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, ICC, IHC, Flow Cytometry, Confocal Microscopy, Image Processing (ImageJ) RT-qPCR, DNA/RNA Extraction, Gel Electrophoresis

Education

- 2024-09
- present **Biomedical Data Science, M.S.**
University of Wisconsin - Madison (transfer)
- 2023-03
- 2024-06 **Data Science, M.S.**
University of Colorado, Boulder (transfer)

GPA: 3.95
- 2017-09
- 2022-05 **Biomedical Engineering, Neurobiology, B.S.**
University of Wisconsin, Madison

GPA: 3.6/4

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*
As a volunteer instructor, I share my love of windsurfing, ice kiting, and sailing with club members
- 2018-04
- present *Ultimate Frisbee Coach*
Off and on, 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

- 2025 **Statistics in Human Genetics**
- 2025 **Applied Data Science in Healthcare**
- 2025 **Deep Learning 760**
- 2024 **Bioinformatics 1**
- 2022 **Stem Cell Bioengineering**

Certificates

- 2023-03
Brainest Python Developer Training Program

Hobbies

- Madison Radicals (Semi-Pro Ultimate Frisbee)
Camping, hiking, exploration
Cooking, reading