

Ryan T. Willett, Ph.D.

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SKILLS

Bio: gene expression analysis, histology, *in vitro/vivo* models, molecular genetics, design/testing/delivery of shRNA and viral vectors, mouse gene targeting

Hard: Python, R, SQL, Julia, HTML/CSS, \LaTeX , shell scripting, linux, Docker, AWS, Git

Techniques: graph analysis, machine learning, data visualization, data cleaning, EDA, ETL

Professional: technical/scientific writing and presentations, project management

PROFESSIONAL EXPERIENCE

Sabbatical

Jun 2023 - Aug 2023 — New York, NY

- Took some time to focus on personal projects, personal learnings, and to recharge

Director of Data Science

Gryphon Strategies, May 2022 - May 2023 — New York, NY

- Spearheaded client engagement, scoping, and stakeholder alignment initiatives resulting in acquisition of 3 new clients for the data team
- Architected/developed 2 cloud-based workflow automation and data mining platforms
- Served as internal consultant and OSINT support on 4 client investigations
- Supervised and mentored 4 data scientists and analysts across several projects
- Recognized with the company "Ultramarathoner" award for most project-driven employee

Data Scientist

Gryphon Strategies, Jul 2020 - May 2022 — New York, NY

- Carried out complex data ingestion, QC, analytics, and report preparation for 2 large lawsuits, including the National Prescription Opiate Litigation MDL
- Built a feature engineering pipeline and risk model for a crime gun tracing platform used by a major metropolitan police department

Freelance Data Scientist and Scientific Consultant

Apr 2019 - Jul 2020 — New York, NY

- Transitioned from neuroscience to data science after completing a 12-week intensive data science bootcamp at NYCDSA
- Performed ETL, data integrity validation, and analytics for National Prescription Opiate Litigation MDL (w/ Gryphon)
- Built a data ingestion, analytics and visualization pipeline using network graph analysis to identify disinformation campaigns on a popular social network. Approximately 250,000+ accounts were mapped.
- Collaborated with the Shindell Lab at Duke University to build data visualizations and dashboards, showcased at the Climate & Clean Air Coalition Science Policy Dialogue.

- Implemented a data pipeline to render high-resolution air quality animations from hundreds of stationary and mobile sensors over a multi-year period for a presentation on energy to the U.S. House of Representatives personnel.
- Executed about 10 scientific due diligence investigations for an Austrian-based venture capital firm investing in biotech startups.

Scientific Associate

Chameleon Communications, Dec 2017 - Mar 2019 — New York, NY

- Composed, edited, and verified the scientific accuracy of commercial and medical affairs communication products based on clinical research data from pharma clients.
- Provided scientific and business intelligence support for several pharmaceutical brands at various stages of drug development

Research Fellow

Memorial Sloan-Kettering Cancer Center, Mar 2011 - Nov 2017 — New York, NY

- Discovered a novel role of a brain structure (cerebellar nuclei) on coordinating regional brain growth and construction of larger neuronal assemblies
- Conceived of and led an original research project, resulting in 1 research paper, one book chapter, and 2 funded research grants, and presentations at 7 institutions and conferences
- Mentored and supervised 5 student researchers and 2 research technicians

Graduate Student

Columbia University, Sep 2003 - Jul 2010 — New York, NY

- Characterized the role of the transcription factor GATA-2 in dorsal midbrain development
- Conceived of and led an original research project, resulting in 1 research paper
- My expertise in shRNA vector design, production, and delivery led to collaborations on 2 additional projects, resulting in 2 publications
- Recognized with departmental award for top student

EDUCATION

Columbia University, Ph.D. Pharmacology and Molecular Signaling

Brandeis University, B.S. in Biology (High Honors) and Biochemistry

New York Data Science Academy, Certificate in Data Science

PUBLICATIONS

4 papers and 1 book chapter. More information at <https://rtwillet.github.io/#cv>