

# 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,  $\text{\LaTeX}$ , 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

### Freelance Data Scientist

Aug 2023 - Present — New York, NY

- Consultant, developer, and data scientist working on OSINT and building document querying and data mining platforms for a variety of clients

### Sabbatical

Jun 2023 - Aug 2023 — New York, NY

- My data group was shut down as part of a company consolidation strategy. I took some time to focus on personal projects, personal learnings, and to recharge

### Data Scientist

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
- 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/conferences
- Mentored and supervised 5 student researchers and 2 research technicians

### **Graduate Student**

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

- 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

## **PUBLICATIONS**

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