

Matthew H. Secret

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SUMMARY

Epidemiologist, data scientist, and developer with expertise in real-world evidence and oncology drug development. Experienced in epidemiologic and biostatistical methods and clinical predictive modeling across EMR, claims, and NGS data, with applied experience building autonomous AI agent systems for clinical research. Author of dozens of peer-reviewed publications and abstracts, and open-source R packages `psborrow2` and `survivalCCW`.

RELEVANT EXPERIENCE

Genentech

South San Francisco, CA

Principal Data Innovation Specialist

Oct. 2025 – Present

- Design and scale innovative solutions to support real-world and clinical data strategy
- Lead the global real-world data analytics community (knowledge sharing, networking)
- Prototype autonomous agentic systems (RAG agents) to automate complex epidemiological workflows
- Drive adoption of agentic frameworks (Claude Code, GitHub Copilot + MCP agents)

Principal Data Scientist

Aug. 2024 – Oct. 2025

- Designed and executed real-world/observational epidemiologic studies using EMR, claims, and NGS data
- Developed dashboards, R packages, and subject-matter expert Docker images to support drug development

Senior Data Scientist

Oct. 2021 – Aug. 2024

- Led epidemiologic studies and R package development supporting oncology drug development pipelines

Data Scientist

Mar. 2020 – Oct. 2021

- Built data pipelines and statistical models for real-world evidence studies in oncology

Verana Health

San Francisco, CA

Clinical Data Scientist

Nov. 2019 – Mar. 2020

- Designed and executed real-world data studies in ophthalmology and neurology using proprietary EMR data
- Mapped unstructured EMR data to structured clinical features

The Data Incubator

Remote

Fellow

Sept. 2019 – Nov. 2019

- Received a selective 8-week industry data science fellowship
- Built an NLP app to predict drug approval likelihood from clinical trial abstracts

IQVIA

Boston, MA

Consultant, Real-World Evidence

Aug. 2017 – Sept. 2019

- Designed and managed studies of drug safety and effectiveness in secondary datasets for market access, label expansion, post-marketing surveillance, and REMS evaluation

EDUCATION

University of Pennsylvania

Philadelphia, PA

Master of Computer and Information Technology

May 2026

McGill University

Montréal, QC

Master of Science, Epidemiology

2016

Wake Forest University

Winston-Salem, NC

Bachelor of Science, Chemistry

2010

SKILLS

Domain : Epidemiology, real-world evidence, observational study design, oncology, causal inference; EMR, claims, and NGS data

Generative AI : LangGraph, LangChain, RAG, LLM fine-tuning, MCP, Claude Code, API integration (Azure, AWS, Anthropic/OpenAI)

Programming : R (expert), Python (expert), SQL, Stan, Java, C++; ggplot2, plotly, Shiny, Streamlit

MLOps : Docker/Podman, renv/virtualenv, uv, Git, GitHub/GitLab