Nathaniel D. Phillips, PhD

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Summary

I design processes and tools that help people and organizations make better decisions.

Experience

2025 – Present **Real World Healthcare Analytics Consultant**
- Designed analytical implementation plans for scientific questions applied to real world healthcare datasets.

2025 – 2025 **Staff Quantitative Scientist**, *Talkiatry*, New York, NY
- Led clinical quality research across >250,000 patients treated via telepsychiatry by >500 providers. Collaborated with C-suite and clinical leadership. Used structured EHR, claims and patient survey data to identify predictors of clinical improvement in anxiety and depression symptoms. Published results at the journal JMIR Formative Research [See manuscript in press].

2022 – 2024 **CTO & Co-Founder**, *Plinth Analytics*, Brooklyn, NY
- Scientific lead creating open-source tooling (e.g., APIs, dashboards) applied to real-world (RWD) healthcare data (e.g., EHR, claims) in both OMOP and proprietary formats generating HEOR (Health Economics and Outcomes Research) insights (e.g., clinical outcomes, costs) from EHR and claims data across oncology and neurological diseasesl. Presented results to client scientific (e.g.; epidemiologists, biostatisticians, data scientists) and business leaders (e.g.; senior research directors, c-suite).
- Managed data science team as a "player-coach", prioritizing, designing, and delegating team tasks based on project requirements. Set high end-to-end standards for project quality. Established processes to ensure scientific integrity, development efficiency, and IC professional growth.

2020 – 2022 **Senior Quantitative Scientist**, *Flatiron Health*, New York, NY
- Designed and led the implementation of an open source-based "grammar" of real-world evidence tooling for building oncology RWD cohorts. Enabled self-service 'no-code' development platforms and improving analyst operational efficiency by >80% [See 'FlatironKitchen' Presentation]. Standardized SOPs and best practices, for a team of 90+ statistical programmers, enhancing code stability, improving cross-team consistency, and reducing development time.

2018 – 2020 **Senior Data Scientist**, *Roche*, Basel, Switzerland
- Led the development of open source analytics tools (e.g.; R, SQL, GitHub) for RWD breast cancer research from structured EHR data, reducing the time needed to conduct feasibility studies by 50%.
- Designed data visualization standards to detect and highlight measurement biases in oncology RWD (e.g; immortal time bias), fostering shared understanding between technical and business stakeholders.

2016 – 2018 **Post-Doctoral Researcher**, *University of Basel*, Basel, Switzerland
- Conducted research in economic psychology, gave invited talks on analytics and decision making at international conferences (e.g.; INFORMS, useR!, EADM).
- Created open-source data science 'bootcamps' in partnership with the University development center, coaching students and professionals in healthcare, finance, and education in data analytics.

2014 – 2016 **Post-Doctoral Researcher**, *University of Konstanz*, Konstanz, Germany
- Created and published algorithms and open-source software for machine learning based rules to improve medical decision-making in high-cost domains. [See 'FFTrees' Presentation]
- Taught BA, MA, and PhD courses on economic decision-making and open-source statistical programming with R, self-published a text book ["YaRrr! The Pirate's Guide to R"]

Education

2014 **Doctorate in Psychology**, *University of Basel*, Basel, Switzerland

2011 **Master's in Psychology**, *Ohio University*, Athens, OH

2005 **Bachelor of Arts in Mathematics**, *Grinnell College*, Grinnell, Iowa