BRENNAN BEAL

I am a pharmacist turned data scientist excited about bridging the gap between data and people. My favorite projects are cross-functional in nature and revolve around creating efficiencies in the way that data is understood and delivered.

💼 INDUSTRY EXPERIENCE

Quantitative Scientist

Flatiron Health   📍 New York, NY

- Leading Syntech in the automation and deployment of a quality assessment pipeline to cut monthly engineering time by 75%
- Thought leader for target-trial emulation to reduce immortal time bias in survival modeling
- Collaborating with our clinicians to develop R packages for scaling the speed at which we can deliver data to clients
- Researching clinical and socioeconomics barriers to access for Chimeric antigen receptor (CAR) T-cell therapy patients
- Conducting research on the use of real-world data (RWD) for ex-US HTA use cases, including collaboration with NICE, UK and thought leadership surrounding the transportability of US-generated real-world evidence

Current | 2021

Post–Doctoral Healthcare Economics Research Fellow

AbbVie with the University of Washington   📍 Seattle, WA

- Designed and led a study employing stratified gamma generalized linear models to indicate that large US payers spend >$315M on preventable glaucoma costs supporting legacy Allergan's second largest durable growth area prior to the acquisition
- Created and began marketing an RShiny app, the Real-World Evidence Assessments and Nee¬ds Guidance (REAdi) Tool, to assist payers in streamlining the process of RWE synthesis and decision-making, which went on to receive $50,000 in funding
- Managed vendors to support an economic value story for AbbVie's $2.3B eye care portfolio

2021 | 2019

Independent Consultant/Entrepreneur

Chiesi USA, Inc.   📍 Raleigh, NC

- Restructured FY 2020 marketing strategy by identifying a $600k profit opportunity within their provider outreach program
- Optimized marketing efforts for an $80M product by demonstrating the synergistic effect of two separate in-house marketing teams, yielding a 300% increase in uptake compared to no marketing

2019 | 2018

View this CV online with links at *brennanbeal.com/cv/*

CONTACT
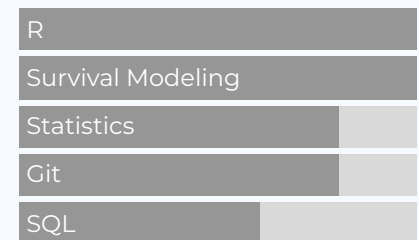
- ✉ brennanbeal@gmail.com
- 🐦 BealBrennan
- 🐙 btbeal
- 🔗 brennanbeal.com
- in btbeal

LANGUAGE SKILLS

- R
- Survival Modeling
- Statistics
- Git
- SQL

SELECTED PUBLICATIONS, POSTERS, AND TALKS

2022

Passport for Travel: Proposed Framework for Transportability of Oncology Real World Evidence[1]

ISPOR 2022 Poster

· *Brennan Beal*, Ivy Altomare, Joshua Ray, Danielle Bargo, Blythe Adamson

2021

Comparing Healthcare Resource Utilization and Costs for Patients with Normal Tension Glaucoma Across Levels of Severity: A Retrospective Cohort Study[2]

Clinical Ophthalmology

· *Brennan Beal*, Vanessa Shih, Joanna Campbell, David Veenstra, and Beth Devine

2021

Online tools to synthesize real-world evidence of comparative effectiveness research to enhance formulary decision making[3]

Journal of Managed Care and Specialty Pharmacy

· Shuxian Chen, Jennifer Graff, Sophia Yun, *Brennan Beal*, Jamie T Ta, Aasthaa Bansa, Joshua J Carlson, David L Veenstra, Anirban Basu, and Beth Devine

2021

Intro to R[4]

University of Washington

· Developed and led a course to teach incoming PhD and Fellows the basics of understanding data with R

2020

REAdi Tool for RWE Evaluation

R/Medicine 2020

· Invited to present[5] the REAdi Tool as a novel use case for RShiny

PACKAGE DEVELOPMENT

2020

adheRenceRX[6]

CRAN

· Authored an opinionated set of R functions, which leverage C++ to improve the speed and efficiency at which researchers can conduct pharmaceutical adherence assessment

SELECTED WRITING

2019

Indifference Curves Explained Through Visualization[8]

Personal Blog

· Understanding the economic theory of utility is often accomanied by two-dimensional graphs of indifference curves; however, this can sometimes be confusing and misleading. This post is meant to demystify indifference curves through three-dimensional visualizations.

In my spare time, I really enjoy learning and teaching others - when I get curious about a subject, I'll usually write about it[7]

2019 • Expected Loss as a Way to Better Communicate Cost Effectiveness[9]
Personal Blog

· Discussing why the technology most likely to be cost-effective may not always be the best option for reducing risk

🎓 EDUCATION

2021 • M.S., Healthcare Economics and Outcomes Research
University of Washington   📍 Seattle, WA

· University Graduate Fellow
· Thesis: Comparing Healthcare Resource Utilization and Costs for Patients with Normal Tension Glaucoma Across Levels of Severity: A Retrospective Cohort Study
· First Fellow to receive the University of Washington School of Pharmacy Graduate Student Leadership Award

2019 • Doctor of Pharmacy
University of North Carolina   📍 Chapel Hill, NC

· Focused on healthcare economics and value of pharmacists in primary care clinics

2015 • B.S., Structural and Molecular Biochemistry
North Carolina State University   📍 Raleigh, NC

🔗 LINKS

1: https://www.ispor.org/heor-resources/presentations-database/presentation/intl2022-3459/115783
2: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7881786/
3: https://pubmed.ncbi.nlm.nih.gov/33377442/
4: https://zealous-hawking-ce0a3d.netlify.app/
5: https://brennanbeal.com/talk/
6: https://btbeal.github.io/adheRenceRX/
7: https://brennanbeal.com/projects/
8: https://btbeal.github.io/Indifference-Curves/
9: https://btbeal.github.io/Expected_Loss/