

# Eric J. Daza, DrPH, MPS

Healthcare Data Scientist + Causal Inference Biostatistician + Personalized Digital Health Methodologist

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CONTACT INFORMATION	P.O. Box 613 Palo Alto, CA 94301 USA (510)552-4151 ericjdaza@gmail.com	ericjdaza.com   statsofl.org linkedin.com/in/ericjdaza medium.com/@ericjdaza.19407 orcid.org/0000-0002-8376-1600
EDUCATION	<b>Dr.P.H. (Biostatistics)</b> , The University of North Carolina at Chapel Hill. 2007–2015. <i>Dissertation: Longitudinal Regression Conditioning on Continuation</i> <b>M.P.S. (Applied Statistics)</b> , Cornell University. 2001–2002. <b>B.A. (Neurobio. &amp; Behavior, Cog. Studies)</b> , Cornell University. 1996–2000.	
INDUSTRY EXPERIENCE	<b>Evidation Health</b> . San Francisco, CA. <i>Lead Biostatistician (Digital Health Outcomes)</i> . Jun 2020 – present. <b>Clarify Health</b> . San Francisco, CA. <i>Senior Statistician (Research and Data Science)</i> . Oct 2018 – Mar 2020. Led causal inference (potential outcomes, directed acyclic graphs) to model CMS metrics/outcomes using healthcare claims (e.g., Medicare, case-mix) joined with socio-behavioral determinants of health commercial data (e.g., LexisNexis, LiveRamp); e.g., machine learning prediction (e.g., regularized GLM, random forests) for admission/readmission risk, total cost of care, hospital length-of-stay. Performed life sciences real-world evidence cost analytics: wrote statistical analysis plan, conducted multiple imputation. Assessed data quality (missingness, measurement error, selection bias). Taught/applied statistical methods (e.g., survey sampling, standardization, imputation). Worked in R, SQL, and Spark (Sparklyr, PySpark); RStudio, DBeaver, and AWS (Athena, EMR, S3, EC2). PM: Confluence, Jira, scrum master. <b>Statistical Consultation</b> . Clarify Health, Evidation Health. May 2018 – Sep 2018. <b>Stanford University, UNC Chapel Hill</b> . <i>Researcher, Biostatistician, Principal Investigator</i> . Jun 2009 – Sep 2018. (see Academic Experience / Honors, Awards, Grants) <b>Rho, Inc.</b> , Chapel Hill, NC. <i>Graduate Research Assistant</i> . Sep 2007 – Jul 2009. Drafted table, listing, and graph (TLG) specifications, and produced TLGs. Prepared statistical reports. Conducted analyses. Validated dataset structures, analyses, TLGs, and reports. Maintained analysis and validation documentation. <b>Supergen, Inc.</b> , Dublin, CA. <i>SAS Programmer / Biostatistician</i> . Sep 2002 – Aug 2007. Supported Phase II and III oncology clinical trials. Conducted analyses and enforced GCP standards using SAS. Managed clinical data, created/reviewed TLGs and SOPs. Stayed abreast of FDA guidelines and CDISC.	
TECHNICAL SKILLS	<b>Programming:</b> R, SQL, AWS, Python, Stata, SAS, SUDAAN, Mplus <b>Analysis:</b> causal inference, n-of-1 / single-case / single-subject study design/analysis, longitudinal/panel analysis, missing data (selection bias from attrition, censoring, truncation), generalized estimating equations, mixed/random effects, Bayesian inference, survey sampling, time series, survival/time-to-event, random forests, elastic net, principal components analysis, multinomial classification, association rule mining	
HIGHLIGHTED POSTS AND PAPERS	<ul style="list-style-type: none"><li>• How A ‘Secret Asian Man’ Embraced Anti-Racism. <i>LAist</i>, 25 Sep 2020.</li><li>• Significant? You Really Mean Detectable (Two common wrong phrases about statistical significance). <i>Towards Data Science</i>, 29 Aug 2020.</li><li>• Confusing P-values with Clinical Impact: The Significance Fallacy (Significance does not imply importance — but you need it to judge quality). <i>Towards Data Science</i>, 1 May 2020.</li></ul>	

- Your Coronavirus Telemedicine Health App Might Be Overrated (Causal inference tutorial in R using synthetic data: Part 2). *Towards Data Science*, 21 Apr 2020.
- Coronavirus, Telemedicine, and Race: Simulated Real-World Evidence (Causal inference tutorial in R using synthetic data: Part 1). *Towards Data Science*, 15 Apr 2020.
- The Overlooked Data Scientists in the Fight against Coronavirus: Biostatisticians. *Towards Data Science*, 5 Apr 2020.
- Effects of Sleep Deprivation on Blood Glucose, Food Cravings, and Affect in a Non-Diabetic: An N-of-1 Randomized Pilot Study. *Healthcare*, Jan 2020.

ACADEMIC  
EXPERIENCE

**Stats-of-1: Inference for the Individual**, Palo Alto, CA. *Creator and Chief Editor*. Feb 2020 – present.

Blogs on personalized digital health (e.g., n-of-1 studies, causal inference, wearables).

**Stanford Prevention Research Center (SPRC)**, Stanford University, Stanford, CA. *Postdoctoral Research Fellow*. Oct 2015 – Sep 2018. (Mentor: Michael Baiocchi, PhD.) *Study Biostatistician*. Jul 2016 – Sep 2018. (PI: Judith Prochaska, PhD.)

Trained in data-analytic and machine-learning methods, and methodological research in causal inference. Collaborated within academic and non-academic projects by providing statistical consultation and programming solutions.

**Carolina Population Center (CPC)**, UNC Chapel Hill, Chapel Hill, NC. *Graduate Research Assistant / Data Programmer & Biostatistician*. May 2010 – Sep 2015.

Performed data management and cleaning, and statistical programming in Stata and SAS. Assisted faculty, post-doc, graduate, and undergraduate researchers with statistical concepts, methods, and software implementation.

**Survey Research Unit (SRU)**, UNC Chapel Hill, Chapel Hill, NC. *Research Assistant*. Jun 2009 – Jun 2010. (Advisor: William Kalsbeek, PhD)

Collaborated with SRU Director and researchers in applying survey sampling methods for Add Health and the NC Department of Transportation. Provided statistical programming support in SAS and SUDAAN.

**Papers, Presentations/Posters, & Projects**. 15 papers (14 published), 12 other publications and posts, 14 presentations/posters. Media coverage (3 items). See ericj-daza.com.

HONORS,  
AWARDS,  
GRANTS

**Insight Health Data Science Fellows Program**. 4 Jun–20 Jul 2018. (declined offer)

**Young Investigator Award**. 2018 Sage Assembly: Algorithms and the Role of the Individual. 19–21 Apr 2018.

**Pilot Project Award**. Improving personalized medicine through n-of-1 causal inference and predictive modeling (N1CPM). Stanford Center for Clinical and Translational Research and Education (Spectrum) Pilot Grant for Population Health Sciences. 1 May 2017–30 Apr 2018. \$26,000. (Principal Investigator)

MEMBERSHIPS,  
AFFILIATIONS

**Memberships**

International Collaborative Network (ICN) for N-of-1 Clinical Trials and Single-Case Experimental Designs (SCEDs), Quantified Self, American Statistical Association, Health Data Exploration Network, American Public Health Association, American Association for the Advancement of Science, Filipino Americans in Science Technology Engineering Arts Math (FASTER)

**Affiliations**

Open Humans, PatientsLikeMe

OTHER SKILLS,  
INTERESTS

**Musical Performance, Composition, & Production:** Piano (36 years), electric bass (16 years), certified concert pianist, vocal performance & production for “A Statistical New World”.

**Student Theatre:** Technical & production work, acting, and administration & management (6 years).

**Physical Activity:** Rock climbing (10 years), Krav Maga (1 year).

**Languages:** Tagalog/Filipino (native), Spanish (beginner/intermediate).