

Eric J. Daza, DrPH, MPS
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Health Data Scientist • Biostatistician • Inventor • Forbes & Fortune Innovator

Summary and Objective

Expert mid-level health data scientist and biostatistician who has worked on real world evidence, patient-reported outcomes, sensors, medical devices, market research, digital endpoints, health IT, and clinical trials in academia and industry. Skilled in designing and conducting statistical analyses in digital health, healthcare, population health, startups, and oncology. Strong record of thought leadership, public speaking, media appearances, publishing, mentoring, inclusive leadership, and leading teams.

Technical Skills

- **Analysis:** causal inference, longitudinal, panel, missing data, selection bias, measurement error, latent variable, imputation, GEE, GLM, mixed effects, random effects, Bayesian, survey sampling, time series, survival, randomization, power, machine learning (ML), random forest, principal component analysis (PCA), association rule mining, data visualization, pancit plot, esametry.
- **Coding:** R, SQL, Python, Jupyter, GitHub, dbt, Domino, Databricks, Snowflake, DBEaver, AWS (Athena, EMR, S3, EC2), Spark (Sparklyr, PySpark), Shiny, Stata, SAS, SUDAAN, Mplus.
- **Areas:** digital health technologies (DHTs), wearables, sensor, medical device, digital endpoint, patient reported outcome (PRO), n-of-1 trial, single-case design, single subject research, switchback experiment, life sciences, pharma, biotech, randomized controlled trial (RCT), clinical trials (Phase 2, Phase 3), market research, medical affairs, oncology, mental health, migraine, diabetes, asthma, pain, chronic illness, women's health, atrial fibrillation (AFib), flu (ILI), COVID, healthcare, claims, CMS, Medicare, real-world (RWE, RWD), social determinants (SDoH).
- **Operations:** statistical analysis plan (SAP), clinical study report (CSR), tables listings figures graphs (TLF, TFL, TLG), standard operating procedure (SOP), case report form (CRF), study protocol, cross-functional (XFT) templates, code workflows, dataset specs, CDISC, CFR Part 11.

Management and Leadership Skills

- **Management:** Evidation: supervised 4 PhD analysts, advised PhD student & 13 undergrads (3 teams), led XFTs on 2 ops initiatives (inclusion, QA/QC); Discerning Statistician: supervised 2 analysts, mentors masters statistician (since 2022), 11+ other mentees/advisees; Stats-of-1: directs 2 coeditors, advises PhD student; ASA JEDI: led 10-15 volunteers over 2 years to complete 18 initiatives; agile: Atlassian (Confluence, Jira).
- **Leadership:** newsletter/podcast founder: 12 contributing writers & podcast guests; inclusive professional development leader; artificial intelligence (AI) and machine learning (ML) patent inventor; see Leadership Highlights; see Other Skills, Interests; see Honors, Awards, Grants.

Professional Experience (21+ Years)

- **The Discerning Statistician, Remote.** May 2018 – (ongoing)
Principal Consultant. Projects: 9 industry. Clients: 1 pharma, 7 health tech / digital health. 5 papers (3 pubs). Supervised 2 analysts. Mentors 2 masters statisticians (since 2022), 11+ other mentees/advisees.
- **Evidation, San Mateo, CA.** Jun 2020 – Mar 2024
Lead Biostatistician (Data Sci). Wrote/reviewed/validated RCT/RWE SAPs, TLF specs, study protocols, CRFs. Taught statistics (59 stats consults, 29 clients). Created XFT processes/templates, SOPs, code/operational workflows. Analyzed PROs, wearables/sensor data. Wrote/reviewed code, dataset specs. Delivered reports. Projects: 24 industry, 4 research, 3 mentoring, 5 operations. Clients: 13 pharma/device, 4 digital health, 3 academic, 2 internal. 7 papers/patents (3 pubs), 2 talks. Led XFTs on 2 ops initiatives (inclusion, QA/QC). Supervised 4 PhD analysts. Advised PhD student & 13 undergrads (3 teams).
- **Clarify Health, San Francisco, CA.** Oct 2018 – Mar 2020
Senior Statistician. Modeled CMS metrics/outcomes with claims (Medicare, case-mix) and SDoH commercial data using ML (regularized GLM, random forests) for admission/readmission risk, total cost of care, hospital length-of-stay. Conducted RWE cost analysis with multiple imputation. Assessed data quality missingness, measurement error, selection bias, data versioning. Taught/applied statistics. Wrote/reviewed code. Delivered reports.
- **Stanford University, UNC Chapel Hill.** Jun 2009 – Sep 2018
See Academic Experience.
- **Rho, Inc., Chapel Hill, NC.** Sep 2007 – Jul 2009
Biostatistician (Research Assistant). Created/validated reports, datasets, TLFs. Maintained analysis/code validation documentation. Conducted analyses. Wrote/reviewed code, dataset specs. Delivered reports.

- **Astex, Pleasanton, CA.** Sep 2002 – Aug 2007
Biostatistician. Supported Phase II, III oncology clinical trials, ISS/ISE, managed clinical data, wrote/revised TLFs and SOPs, enforced GCP standards. Kept current on FDA guidelines and CDISC. Conducted analyses. Wrote/reviewed code, dataset specs. Delivered reports.

Leadership Highlights

- **Patent:** Methods and Systems for Generating Personalized Treatments Via Causal Inference. Inventors: Eric J. Daza. Patent application US-20240047042-A1, Aug 4, 2023 (filed), Feb 8, 2024 (published).
- **Media:** The Power of Biostatistics: Eric J. Daza Holds the Key to Evolving the Healthcare Industry. This is Statistics, American Statistical Association, 2023.
- **Fortune:** 10 innovators shaping the future of health: Leader: Eric J. Daza, creator of Stats-of-1. 2022.
- **Forbes:** 16 Healthcare Innovators That You Should Know: Eric J. Daza. 2022.
- **RWE:** Creating Evidence from Real World Patient Digital Data. Guest editor. Frontiers Media SA, Apr 2021.
- **Inclusion:** How A ‘Secret Asian Man’ Embraced Anti-Racism. LAist, 2020.
- **Musical Theater:** A Statistical New World. American Statistical Association, 2011.

Education

- **Postdoctoral Fellowship** — Stanford Prevention Research Center
- **DrPH – Biostatistics** — The University of North Carolina at Chapel Hill
- **MPS – Applied Statistics** — Cornell University
- **BA – Neurobiology & Behavior, Cognitive Studies** — Cornell University

Academic Experience

- **Stats-of-1, Palo Alto, CA.** Feb 2020 – (ongoing)
Founder and Chief Editor. Health innovation newsletter/podcast on statistics, machine learning, and AI for personalized health/medicine via n-of-1 trials, single-case designs, and their observational counterparts. 10 guests, 5 papers (2 pub), 23 talks (Brown, Harvard, Hopkins, Stanford), 4 scicomm (Forbes, Fortune). Directs 2 coeditors. Advises PhD student.
- **Stanford Prevention Research Center (SPRC), Stanford University, CA.** Oct 2015 – Sep 2018
Postdoctoral Fellow. Mentor: Michael Baiocchi, PhD. Biostatistician. PI: Judith Prochaska, PhD.
- **Carolina Population Center (CPC), UNC Chapel Hill, NC.** May 2010 – Sep 2015
Biostatistician (Research Assistant). Advisors: Michael Hudgens, PhD, Amy Herring, ScD. Dissertation: Longitudinal Regression Conditioning on Continuation.
- **Survey Research Unit (SRU), UNC Chapel Hill, NC.** Jun 2009 – Jun 2010
Biostatistician (Research Assistant). (Advisor: William Kalsbeek, PhD)

Honors, Awards, Grants

- **Young Investigator Award.** 2018 Sage Assembly: Algorithms and the Role of the Individual.
- **Pilot Project Award.** Improving personalized medicine through n-of-1 causal inference and predictive modeling (N1CPM). Stanford Spectrum Pilot Grant. 1 May 2017–30 Apr 2018. \$26,000. (Principal Investigator)

Memberships and Affiliations

- American Statistical Association (ASA). ASA Justice, Equity, Diversity, and Inclusion (JEDI) Outreach Group.
- Digital Medicine Society (DiMe). ICN for N-of-1 Clinical Trials and Single-Case Experimental Designs.
- Society for Causal Inference APHA. AAAS. Sage Bionetworks. Quantified Self. Open Humans. FASTER-STEAM. Filipinx in Tech. Pinoy Scientists.

Other Skills, Interests

- **Thought Leadership, Writing, Media Appearances:** blogging (Stats-of-1, Medium, Towards Data Science), podcasting (N-of-5 Minutes, Data Science with Glen Wright Colopy, The Public Health Millennial), 35+ scicomm and interviews, 34+ speaking engagements.
- **Musical Performance, Composition, Production:** Piano (41 years), electric bass (21 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 (14 years), Krav Maga (1 year), cycling, running.
- **Languages:** Tagalog/Filipino (native), Spanish (beginner/intermediate).