Eric J. Daza, DrPH, MPS

Health Data Scientist | Biostatistician | Inventor | Forbes + Fortune

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EDUCATION

Postdoctoral Fellowship | Stanford Prevention Research Center — 2015–2018
DrPH – Biostatistics | The University of North Carolina at Chapel Hill — 2007–2015
MPS – Applied Statistics | Cornell University — 2001–2002
BA – Neurobiology & Behavior, Cognitive Studies | Cornell University — 1996–2000

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), data visualization.
- **Coding:** R, SQL, Python, Jupyter, GitHub, dbt, Domino, Databricks, Snowflake, DBeaver, AWS (Athena, EMR, S3, EC2), Spark (Sparklyr, PySpark), Stata, SAS, SUDAAN, Mplus.
- **Areas:** digital health technologies (DHTs), wearables, sensor, medical device, digital endpoint, patient reported outcome (PRO), n-of-1, single subject, 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 (DEI, 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: 10 contributing writers & podcast guests; DEI professional development leader; artificial intelligence (AI) and machine learning (ML) patent inventor; see section *Leadership Highlights*; see subsection *Papers/Patents, Speaking Engagements & Media, Service*; see section *Honors, Awards, Grants*.

PROFESSIONAL EXPERIENCE (21+ YEARS)

- **Keep AI**, Remote. *Scientific Advisor.* Apr 2024 – (ongoing).
Advises on artificial intelligence (AI) product development and business strategy.
- **The Discerning Statistician**, Remote. *Consulting Statistician.* May 2018 – (ongoing). Projects: 6 industry. Clients: 1 pharma, 4 digital health. 2 papers. Supervised 2 analysts. Mentors masters statistician (since 2022), 11+ other mentees/advisees.
- **Evidation**, San Mateo, CA. *Lead Biostatistician (Data Sci).* Jun 2020 – Mar 2024 (4y). 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. 6 papers/patents (2 pubs), 2 talks. Led XFTs on 2 ops initiatives (DEI, QA/QC). Supervised 4 PhD analysts. Advised PhD student & 13 undergrads (3 teams).
- **Clarify Health**, San Francisco, CA. *Senior Statistician.* Oct 2018 – Mar 2020 (1.5y). 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.
- **Academic Experience**. *See section below.* Jun 2009 – Sep 2018 (9y).
- **Rho, Inc.**, Chapel Hill, NC. *Graduate Research Assistant.* Sep 2007 – Jul 2009 (2y).

Created/validated reports, datasets, TLFs. Maintained analysis/code validation documentation. Conducted analyses. Wrote/reviewed code, dataset specs. Delivered reports.
- **Astex**, Pleasanton, CA. *SAS Programmer, Biostatistician.* Sep 2002 – Aug 2007 (5y). Supported Phase II, III oncology clinical trials, 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. *Fortune*, 2022.
- **Forbes:** 16 Healthcare Innovators That You Should Know: Eric J. Daza. *Forbes*, 2022.
- **RWE:** Creating Evidence from Real World Patient Digital Data. Guest editor. *Frontiers Media SA*, Apr 2021.
- **DEI:** How A 'Secret Asian Man' Embraced Anti-Racism. *LAist*, 2020.
- **Musical Theater:** A Statistical New World. *American Statistical Association*, 2011.

ACADEMIC EXPERIENCE

- **Stats-of-1**, Palo Alto, CA. *Founder and Chief Editor.* Feb 2020 – (ongoing). 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, 4 papers (2 pub), 21 talks (Brown, Harvard, Hopkins, Stanford), 4 scicomm (Forbes, Fortune). Directs 2 coeditors. Advises PhD student.
- **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.)
- **Carolina Population Center (CPC)**, UNC Chapel Hill, Chapel Hill, NC. *Graduate Research Assistant / Data Programmer & Biostatistician.* May 2010 – Sep 2015.
- **Survey Research Unit (SRU)**, UNC Chapel Hill, Chapel Hill, NC. *Research Assistant.* Jun 2009 – Jun 2010. (Advisor: William Kalsbeek, PhD)
- **Papers/Patents, Speaking Engagements & Media, Service**. 22 papers/patents (17 published); 32 speaking engagements; 7 news and media; 30 other publications, posts, interviews, science communication; ASA JEDI/DEI Chair-Elect; 11+ mentees/advisees.

HONORS, AWARDS, GRANTS

- **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 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. 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), video interviews, speaking engagements. **Musical Performance, Composition, Production:** Piano (40 years), electric bass (20 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).