Eric J. Daza, DrPH, MPS

Health Data Scientist | Biostatistician | Inventor | Forbes + Fortune

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CONTACT INFORMATION

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ericjdaza.com | statsof1.org | linktr.ee
linkedin.com/in/ericjdaza

EDUCATION

Postdoctoral Fellowship | Stanford Prevention Research Center   2015–2018
     Mentor: Michael Baiocchi, PhD

DrPH – Biostatistics | The University of North Carolina at Chapel Hill   2007–2015
     Dissertation: Longitudinal Regression Conditioning on Continuation
     Committee: Michael G. Hudgens (Advisor), Amy H. Herring (Co-advisor), Linda S. Adair, Stephen R. Cole, John S. Preisser, Jr.

MPS – Applied Statistics | Cornell University   2001–2002

BA – Neurobiology & Behavior, Cognitive Studies | Cornell University   1996–2000

HIGHLIGHTED PAPERS AND PATENTS

- **EJ Daza**. Methods and Systems for Generating Personalized Treatments Via Causal Inference. Patent application US-20240047042-A1, Aug 4, 2023 (filed), Feb 8, 2024 (published).
- **EJ Daza**, L Schneider. Model-Twin Randomization (MoTR): A Monte Carlo Method for Estimating the Within-Individual Average Treatment Effect Using Wearable Sensors. (in preparation)
- J Nikles, **EJ Daza**, S McDonald, E Hekler, N Schork, editors. Creating Evidence from Real World Patient Digital Data. *Frontiers Media SA*, Apr 2021.
- How A 'Secret Asian Man' Embraced Anti-Racism. *LAist*, 25 Sep 2020.
- **EJ Daza**. Causal analysis of self-tracked time series data using a counterfactual framework for n-of-1 trials. *Methods of Information in Medicine*, Feb 2018.

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)

ACADEMIC APPOINTMENTS

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.

Rho, Inc., Chapel Hill, NC. *Graduate Research Assistant.* 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.

Johnson School of Management, Cornell University, Ithaca, NY. *Research Assistant.*

Jul 2001 – May 2002. (Advisor: David F. Sally, PhD)

Department of Neurobiology and Behavior, Cornell University, Ithaca, NY. *Research Assistant.* Jan 1999, May 2002. (Advisor: H. Kern Reeve, PhD)

INDUSTRY
EXPERIENCE

- **Keep AI**, Remote. *Scientific Advisor.*   Apr 2024 – (ongoing).
Advises on artificial intelligence (AI) product development and business strategy.
- **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.
- **The Discerning Statistician**, Remote. *Consulting Statistician.* May 2018 – (ongoing).
Write/validate SAPs, study protocols. Teach/apply statistics. Advise on data visualizations. Conduct analyses. Write/review code, dataset specs. Deliver reports. 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.

PAPERS AND
PATENTS
PUBLISHED OR
ACCEPTED

17. E Benito-Garcia, J Vega, **EJ Daza**, W Lee, A Kennedy, J Chantelot. Patient and Physician Perspectives on the Use of a Connected Ecosystem for Diabetes Management: International Cross-Sectional Observational Study. *JMIR Form Res*, Nov 2023.

16. I Matias, **EJ Daza**, K Wac. What possibly affects nighttime heart rate? Conclusions from N-of-1 observational data. *Digital Health*, Aug 2022.

15. A Mezlini, A Shapiro, **EJ Daza**, E Caddigan, E Ramirez, T Althoff, L Foschini. Estimating the Burden of Influenza-like Illness on Daily Activity at the Population Scale Using Commercial Wearable Sensors. *JAMA Network Open*, May 2022.

14. Nikles J, **Daza EJ**, McDonald S, Hekler E, Schork N, editors. Creating Evidence from Real World Patient Digital Data. *Frontiers Media SA*, Apr 2021.

13. EE Weinlander, **EJ Daza**, M Winget. Impact of Mind–Body Medicine Professional Skills Training on Healthcare Professional Burnout. *Global Advances in Health and Medicine*, Feb 2020.

12. JJ Prochaska, MH Watts, L Zellers, D Huang, **EJ Daza**, J Rigdon, MJ Peters, L Henriksen. Inequity in California's Smokefree Workplace Laws: A Legal Epidemiologic Analysis of Loophole Closures. *American Journal of Preventive Medicine*, Jan 2020.

11. **EJ Daza**, K Wac, M Oppezzo. 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.

10. **EJ Daza**. Causal analysis of self-tracked time series data using a counterfactual framework for n-of-1 trials. *Methods of Information in Medicine*, Feb 2018.

9. ML Nguyen, J Hu, K Hastings, **E Daza**, M Cullen, L Orloff, L Palaniappan. Thyroid cancer mortality is higher in Filipinos in the United States: An analysis using National Mortality Records from 2003 through 2012. *Cancer*, Sep 2017.

8. **EJ Daza**, MG Hudgens, AH Herring. Estimating inverse-probability weights for longitudinal data with dropout or truncation: The xtrccipw command. *The Stata Journal*, Jul 2017.

7. AP Keil, **EJ Daza**, SM Engel, JP Buckley, JK Edwards. A Bayesian approach to the g-formula. *Statistical Methods in Medical Research*, Jan 2017.

6. CG Brown-Johnson, A Burbank, **EJ Daza**, A Wassmann, A Chieng, GW Rutledge, JJ Prochaska. Online patient-provider e-cigarette consultations: Perceptions of safety and harm. *American Journal of Preventive Medicine*, Dec 2016.

5. JJ Prochaska, AK Michalek, C Brown-Johnson, **EJ Daza**, M Baiocchi, N Anzai, A Rogers, M Grigg, A Chieng. Likelihood of unemployed smokers vs nonsmokers attaining reemployment in a one-year observational study. *JAMA Intern Med.*, May 2016.

4. VL Flax, LS Adair, LH Allen, S Shahab-Ferdows, D Hampel, CS Chasela, G Tegha, **EJ Daza**, A Corbett, NL Davis, D Kamwendo, AP Kourtis, CM van der Horst, DJ Jamieson, ME Bentley for the Breastfeeding, Antiretrovirals, and Nutrition (BAN) Study Team. Plasma micronutrient concentrations are altered by antiretroviral therapy and lipid-based nutrient supplements in lactating HIV infected Malawian women. *The Journal of Nutrition*, Jun 2015.

3. VL Flax, M Negerie, AU Ibrahim, S Leatherman, **EJ Daza**, ME Bentley. Integrating group counseling, cell phone messaging, and participant-generated songs and dramas into a microcredit program increases Nigerian women's adherence to international breastfeeding recommendations. *The Journal of Nutrition*, May 2014.

2. VL Flax, ME Bentley, GF Combs, CS Chasela, D Kayira, G Tegha, D Kamwendo, **EJ Daza**, A Fokar, AP Kourtis, DJ Jamieson, CM van der Horst, LS Adair. Plasma and breast-milk selenium in HIV-infected Malawian mothers are positively associated with infant selenium status but are not associated with maternal supplementation: results of the Breastfeeding, Antiretrovirals, and Nutrition study. *The American Journal of Clinical Nutrition*, Apr 2014.

1. EM Widen, ME Bentley, D Kayira, CS Chasela, **EJ Daza**, ZK Kacheche, G Tegha, DJ Jamieson, AP Kourtis, CM van der Horst, LH Allen, S Shahab-Ferdows, LS Adair for the BAN Study Team. Changes in soluble transferrin receptor and hemoglobin

concentrations in Malawian mothers are associated with those values in their exclusively breastfed, HIV-exposed infants. *The Journal of Nutrition*, Mar 2014.

PAPERS AND PATENTS UNDER REVIEW OR IN PREPARATION

5. **EJ Daza**. Methods and Systems for Generating Personalized Treatments Via Causal Inference. Patent application US-20240047042-A1, Aug 4, 2023 (filed), Feb 8, 2024 (published).

4. CR Emerson, CE Webster, **EJ Daza**, BG Klamer, M Tummalacherla. Effect of cannabigerol on sleep and quality of life in Veterans: A decentralized, randomized, placebo-controlled trial. medRxiv. 2023:2023-08. (in preparation)

3. CE Webster, CR Emerson, **EJ Daza**. The Veterans ECS21 (Exploring Cannabigerol for Sleep) Study: A protocol for the first randomized clinical trial of Cannabigerol (CBG), a decentralized study designed for US Veterans in California. medRxiv. 2023:2023-03. (in preparation)

2. **EJ Daza**, L Schneider, I Matias. Model-Twin Randomization (MoTR): A Monte Carlo Method for Estimating the Within-Individual Average Treatment Effect Using Wearable Sensors. (in preparation)

1. **EJ Daza**. Person as population: A longitudinal view of single-subject causal inference for analyzing self-tracked health data. (in preparation)

SPEAKING ENGAGEMENTS

32. (panel) M Smith, J Nelson, C Bertipaglia, J Ross, **EJ Daza**. From Postdoc to Industry. *Stanford Career Education: PhD Pathways.* Stanford, CA, Mar 2024.

31. (panel) D Corliss, M Kwasny, M Ward, A Kotolyan, **EJ Daza**. Ethics Panel: Exploring Questions Raised by the Use of Large Language Models. *Conference on Statistical Practice (CSP).* New Orleans, LA, Feb 2024.

30. (panel) M Mazumdar, A Golbeck, Y Ma, **EJ Daza**. Assess Yourself, Acquire Skills, and Attain a Leadership Role: Statistical Practice Needs You! *CSP.* New Orleans, LA, Feb 2024.

29. (seminar) **EJ Daza**. Discovering Your Own Health Behavior Causal Effects Using Wearables and Apps. *The University of South Carolina, Research Center for Child Well-Being (RCCWB), Distinguished Speaker Series.* Columbia, SC, Feb 2024.

28. (talk) **EJ Daza**. Using Wearables and Apps to Characterize Your Own Recurring Average Treatment Effects. *University of the Philippines (UP) Diliman, School of Statistics Colloquium.* Diliman, Quezon City, Metro Manila, Philippines, Nov 2023.

27. (workshop) K Wac, I Matias, C Siebra, **EJ Daza**, P De Villèle. Workshop 1: Introduction to Technology-Reported Outcomes for QoL research. *International Society for Quality of Life Research (ISOQOL) 30th Annual Conference.* Calgary, AB, Canada, Oct 2023.

26. (panel) M Dumelle, T Usher, B Bailey, **EJ Daza**, J Gonzalez, M McCabe, K Plourde, M Town, D Washington. Building Successful Mentor/Mentee Relationships in the Hybrid Work Era. *JEDI Outreach Group Webinar.* Online, Oct 2023.

25. (session) **EJ Daza**, M Mazumdar. Stories of Leadership (Cultivating the Next Generation of Leaders). *StatFest 2023.* Cary, NC, Sep 2023.

24. (session) **EJ Daza**, F Diaz, I Malenica, M Moeyaert, K Qu, C Schmid, N Schork. Statistical advances and challenges in N-of-1 and single-case studies for evidence-based decision-making — Topic Contributed Papers. *Joint Statistical Meetings.* Toronto, ON, Aug 2023.

23. (talk) **EJ Daza**. Using Wearables and Apps to Characterize Your Own Recurring Average Treatment Effects. *American Causal Inference Conference.* Austin, TX, May 2023.

22. (seminar) **EJ Daza**. Using Wearables and Apps to Characterize Your Own Recurring Average Treatment Effects. *Brown University, Department of Biostatistics Seminar.* Providence, RI, Dec 2022.

21. (session, talk) **EJ Daza**, F Diaz, Z Liao, M Moeyaert, C Schmid, N Schork. Beyond Precision Medicine: Making It Personal with N-of-1 and Single Case Methods for Medicine, Rare Diseases, Digital Health, Behavior, and Wearables — Topic Contributed Papers. *Joint Statistical Meetings.* Washington, DC, Aug 2022.

20. (poster) **EJ Daza**. Model-Twin Randomization (MoTR): A Monte Carlo Method for Estimating the Within-Individual Average Treatment Effect Using Wearable Sensors. *American Causal Inference Conference.* Berkeley, CA, May 2022.

19. (seminar) **EJ Daza**. Model-Twin Randomization (MoTR): A Monte Carlo Method for Estimating the Within-Individual Average Treatment Effect Using Wearable Sensors. *Johns Hopkins University, Department of Biostatistics Seminar.* Virtual/online, Jan 2022.

18. (talk) **EJ Daza**. MoTR + PSTn: Building a Causal Engine For Estimating the Within-Individual Average Treatment Effect Using Wearable Sensors. *3rd Annual Health Data Science Symposium at Harvard: Smartphones, Wearables, and Health.* Boston, MA, Nov 2021.

17. (seminar) **EJ Daza**. MoTR and PSTn: Building a Causal Engine for Estimating the Within-Individual Average Treatment Effect Using Wearable Sensors. *University of Minnesota, Division of Biostatistics Seminar.* Virtual/online, Oct 2021.

16. (talk) **EJ Daza**. StoRies from Biostatistics to Health Data Science. *noRth 2021: A (virtual) conference for R users in the Twin Cities and greater north region.* Virtual/online, Sep 2021.

15. (talk) **EJ Daza**. MoTR and PSTn: Building a Causal Engine for Estimating the Within-Individual Average Treatment Effect Using Wearable Sensors. *Joint Statistical Meetings.* Virtual/online, Aug 2021.

14. (talk) **EJ Daza**. Epidemiology-of-1: Causal Inference via Single-case Observational Design for Sleep and Physical Activity Wearables Data. *Society of Behavioral Medicine 42nd Annual Meeting.* Virtual/online, Apr 2021.

13. (talk) **EJ Daza**. Making it Count: Statistics and Data Science in Public Health. *Pilipinx American Public Health Conference (PAPHC).* Virtual/online, Nov 2020.

12. (talk, poster) **EJ Daza**. Person as population: A longitudinal view of single-subject causal inference for analyzing self-tracked health data. *Joint Statistical Meetings.* Colorado Convention Center, Denver, CO, Jul 2019.

11. (poster) **EJ Daza**. Use Your Own Self-Tracked Data to Design Personalized Experiments. *Sage Assembly 2018.* Seattle, WA, Apr 2018.

10. (poster) **EJ Daza**. Use Your Own Self-Tracked Data to Design Personalized Experiments. *Spectrum Innovation Research Symposium.* Stanford, CA, Apr 2018.

9. (poster) **EJ Daza**. Use Your Own Self-Tracked Data to Design Personalized Experiments. *Stanford Prevention Research Center Research Symposium.* Stanford, CA, Apr 2018.

8. (talk) **EJ Daza**. Causal Analysis of Self-tracked Time Series Data using a Counterfactual Framework for N-of-1 Trials. *Eastern North American Region (ENAR) International Biometric Society 2018 Spring Meeting.* Atlanta, GA, Mar 2018.

7. (talk, poster) **EJ Daza**. Use Your Own Self-Tracked Data to Design Personalized Experiments. *Stanford Wearable Electronics Initiative (eWEAR) Annual Affiliate Member Meeting.* Stanford, CA, Feb 2018.

6. (talk) **EJ Daza**. It's About Time: Using Self-Tracked Health Data to Design Personalized, Single-Subject Randomized Trials. *Stanford Prevention Research Center / Primary Care and Population Health Weekly Seminar.* Stanford, CA, Jan 2018.

5. (talk, poster) **EJ Daza**. Causality in N-of-1 Trials and Studies: A Counterfactual Approach. *Joint Statistical Meetings.* Baltimore Convention Center, Baltimore, MD, Aug 2017.

4. (talk, poster) **EJ Daza**. Counterfactual-Based Causal Inference for N-of-1 Time Series. *Atlantic Causal Inference Conference.* UNC Chapel Hill, Chapel Hill, NC, May 2017.

3. (poster) **EJ Daza**. Counterfactual-Based Causal Inference for N-of-1 Time Series. *Stanford University Postdoctoral Association (SURPAS) Postdoc Symposium.* Stanford, CA, Dec 2016.

2. (talk) **EJ Daza**, WD Kalsbeek. Evaluation of the Random Vehicle Survey in the Annual Inspection and Maintenance Audit of Automobiles by the NCDENR DAQ. NCDENR DAQ, Raleigh, NC, Jun 2010.

1. (talk) N Brownstein, W Kalsbeek, J Tabor, P Entzel, **E Daza**. Non-response in Wave IV of the Add Health Study. *Add Health Users Conference, UNC Chapel Hill, Carolina Population Center, Chapel Hill, NC,* 2010.

News and Media

7. The Power of Biostatistics: Eric J. Daza Holds the Key to Evolving the Healthcare Industry. *This is Statistics, American Statistical Association*, 2 Mar 2023.

6. 10 innovators shaping the future of health: "Leader: Eric J. Daza, creator of Stats-of-1". *Fortune*, 16 Nov 2022.

5. 16 Healthcare Innovators That You Should Know: Eric J. Daza. *Forbes*, 21 Jun 2022.

4. How A 'Secret Asian Man' Embraced Anti-Racism. *LAist*, 25 Sep 2020.

3. Online patient-provider e-cigarette consultations: Perceptions of safety and harm.
   - Physician advice to patients on e-cigarettes varies, reveals knowledge gaps, study shows. *Science Daily*, 26 Aug 2016.

2. Likelihood of unemployed smokers vs nonsmokers attaining reemployment in a one-year observational study.
   - For smokers, finding a job is harder. *Fox News*, 12 Apr 2016.
   - For smokers, finding a job is harder. *Reuters*, 11 Apr 2016.
   - Cigarette smoking could burn your job prospects. *CBS News*, 11 Apr 2016.
   - Smokers less likely to get hired and earn less: Study. *NBC News*, 11 Apr 2016.

1. A Statistical New World. *American Statistical Association "Promoting the Practice and Profession of Statistics" Video Competition Winners Announced*, 2011.

OTHER
PUBLICATIONS,
POSTS,
INTERVIEWS,
SCIENCE
COMMUNICATION
(SCICOMM)

30. (interview) The Power of Biostatistics: Eric J. Daza Holds the Key to Evolving the Healthcare Industry. *This is Statistics, American Statistical Association*, 2 Mar 2023.

29. (interview) FiT Feature: Eric Daza. *Filipinx in Tech*, Feb 2023.

28. (interview) PhD Panel Discussion: Pitfalls in Leaving Academia. *Victoria Wobber Coaching and Consulting*, 19 Jan 2023.

27. (scicomm) Statistics Is My Dance (Falling Helped Me Learn). *Artifice or Intelligence*, 29 Nov 2022.

26. (interview) Eric Daza | Important Ideas in Causal Inference *Data Science with Glen Wright Colopy*, 11 Jul 2022.

25. (scicomm) Big Data Principles by Eric J. Daza *Teach in Two*, 22 Mar 2022.

24. (interview) A Moment with Eric J. Daza: On N-of-1 Trials and Precision Medicine. *Pattern Health*, 2 Dec 2021.

23. (scicomm) Consistency, Causally Speaking (Why does "consistency" matter in causal inference?). *Towards Data Science*, 12 Oct 2021.

22. (interview) Why You Should Think of the Enterprise of Data Science More Like a Business, Less Like Science (For Eric J. Daza, "how you sell your work matters in setting you up for success"). *Towards Data Science*, 22 Sep 2021.

21. (interview) #MemeMedianMode Contest Winner! *Stats + Stories*, 16 Sep 2021.

20. (interview) Data Science in the Biomedical Industry. *Academic Data Science Alliance (ADSA)*, 14 Sep 2021.

19. (webinar) Statistical considerations for successful digital health innovation. *Digital Medicine Society (DiMe)*, 26 Aug 2021.

18. (scicomm) Artifice or Intelligence? (Report your modeling strategy or statistical analysis plan before seeing any data). *Towards Data Science*, 9 Jul 2021.

17. (interview) N-of-1 Science Causal Inference | Philosophy of Data Science *Data Science with Glen Wright Colopy*, 14 Jun 2021.

16. (scicomm) Ditch "Statistical Significance" — But Keep Statistical Evidence. (How? A statistician shares a writing sample). *Towards Data Science*, 14 Jun 2021.

15. (scicomm) Significant? You Really Mean Discernible (Two common wrong phrases about statistical significance). *Towards Data Science*, 29 Aug 2020.

14. (interview) FilipinxAms in Healthtech + Safety During COVID19). *Filipinx Americans in Science Technology Engineering Arts and Mathematics (FASTER).*, 30 Jun 2020.

13. From Filipino White Supremacy to Black Lives Matter (My Filipino American journey as a privileged Brown Asian immigrant). *Full-Stack Biostats*, 23 June 2020.

12. (scicomm) Confusing P-values with Clinical Impact: The Significance Fallacy (Significance does not imply importance — but you need it to judge quality). *Towards Data Science*, 1 May 2020.

11. (scicomm) Your Coronavirus Telemedicine Health App Might Be Overrated (Causal inference tutorial in R using synthetic data: Part 2). *Towards Data Science*, 21 Apr 2020.

10. (scicomm) Coronavirus, Telemedicine, and Race: Simulated Real-World Evidence (Causal inference tutorial in R using synthetic data: Part 1). *Towards Data Science*, 15 Apr 2020.

9. (scicomm) The Overlooked Data Scientists in the Fight against Coronavirus: Biostatisticians. *Towards Data Science*, 5 Apr 2020.

8. (scicomm) Design Trumps Analysis: (Very Carefully) Drawing Causal Conclusions using Big Data. *Data Science Philippines 2017 October Meetup.* Asian Institute of Management, Makati, Metro Manila, Philippines, Oct 2017.

7. (scicomm) J Sills, L Winslow, ST May, IC McKay, T McCallum, **EJ Daza**, EM Guthman, D Gutierrez, E Adkins, SM Homer-Drummond. Letters: Outside the Tower: March for Science: Share your sign. *Science*, 14 Apr 2017.

6. (scicomm) Three Statistical Significant Principles. *Quantified Self Bay Area Meetup: Show & Tell #41.* Institute for the Future, Palo Alto, CA, Mar 2017.

5. (scicomm) J Sills, J Paik, M Warrington, **EJ Daza**, Z Wang, RE Keith, JA Speetjens, DA Pederson, M Scult, H Vazquez-Rivera, D Fanslow, N Medvedev, JD Hoyle, N Idrisi, IC McKay, M Dutta, S Srivastava, T McCallum, OM Staveley-O'Carroll, V Miron, KL Murray, C Leifer, N Ritter, L Winslow, SM Homer-Drummond, B Zeller-Plumhoff, KC Chan, A Ramanathan, AF Pincus, SJ Halmhofer, H Pollard. Letters: NextGen voices: Advocacy in brief. *Science*, 7 Apr 2017.

4. E Jordan-Bell, L Adair, V Flax, C Chasela, D Kayira, **E Daza**, M Tembo, P Chitsulo, D Jamieson, C van der Horst, M Bentley. Weight status in HIV-positive women after termination of a drug and lipid-based nutrient supplement intervention is predicted by food availability and health. *The Journal of the Federation of American Societies for Experimental Biology*, Apr 2012.

3. (scicomm) A Statistical New World. *American Statistical Association Public Awareness Group.* Aug 2011.

2. **EJ Daza**, WD Kalsbeek. Evaluation of the Random Vehicle Survey in the Annual Inspection and Maintenance Audit of Automobiles by the NC Department of Environment and Natural Resources Division of Air Quality (NCDENR DAQ). *NCDENR DAQ internal report document*, Jun 2010.

1. N Brownstein, W Kalsbeek, J Tabor, P Entzel, **E Daza**. Non-response in Wave IV of the the National Longitudinal Study of Adolescent Health (Add Health Study). *Add Health Study*, 2010.

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TEACHING,
MENTORING,
ADVISING

Independent Mentoring and Advising.

Mentor or Advisor
- Mentoring biotechnology masters-level epidemiologist/biostatistician (Sep 2022 – present).
- Mentoring/advising or mentored/advised 10+ statistics and data science students and professionals (2015 – present).

Recommendation Letter Writer
- Wrote letters of recommendation for two former undergraduate advisees who applied to masters programs in statistics and data science (2022, 2023).

Central Coast Data Science Partnership (CCDS), Santa Barbara, CA.

Industry Sponsor

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- Stress indicators for frontline COVID-19 healthcare workers. Jan – Jun 2022.
- Tracking activity patterns in those recently infected by COVID-19. Jan – Jun 2021.

University of California Irvine Samueli School of Engineering, Irvine, CA.

Main Lecturer

- BMI 295: Engineering Human Potential: Guest lecture on n-of-1 studies. 18 May 2020.

Kollective Hustle Mentorship Program, Daly City, CA.

Mentor: 2019.

University of California Irvine Samueli School of Engineering, Irvine, CA.

Main Lecturer

- BMI 295: Engineering Human Potential: Guest lecture on n-of-1 studies. 20 May 2019.

Filipino Americans in Science Technology Engineering Arts Math (FASTER), Berkeley, CA.

Main Lecturer

- FASTER Conference 2018: Guest lecture on n-of-1 studies. 06 Oct 2018.

Stanford Division of Epidemiology, Stanford, CA.

Main Lecturer

- HRP 226: Advanced Epidemiologic and Clinical Research Methods: "It's About Time: Using Self-Tracked Health Data to Design Personalized Single-Subject Randomized Trials." 28 Feb 2018.
- HRP 226: Advanced Epidemiologic and Clinical Research Methods: "Design Trumps Analysis: Drawing Causal Conclusions using Observational Data (Very Carefully)." 10 Jan 2018.

Stanford Prevention Research Center (SPRC), Stanford, CA.

Main Lecturer

- SPRC / Primary Care and Population Health (PCPH) Seminar Series: "Big (Multiple Causes of Death) Data: A Machine Learning Approach to Mortality." 1 Dec 2016.
- SPRC/PCPH Seminar Series: "'P is for 'Pill': Researcher Non-adherence to the Proper Use of P-values." 12 May 2016.

Co-mentor (informal): PhD candidate in epidemiology / masters student in statistics, PhD candidate in computer science, masters-level project biostatistician

Stanford Medicine Quantitative Sciences Unit (QSU), Palo Alto, CA.

Co-lecturer

- QSU Research Methods Seminar: "The IMP: Interference Manipulating Permutation." 4 Oct 2016.

UNC Chapel Hill, Chapel Hill, NC.

Teaching Assistant

- BIOS 600: Principles of Statistical Inference. Fall 2010.

Tutor: PhD candidate in nutrition, PhD candidate in clinical psychology, MPH candidate in biostatistics, PhD candidate in political science

Cornell University, Ithaca, NY.

Tutor: PhD candidate in education

ACADEMIC
SERVICE

Service

American Statistical Association (ASA): Justice, Equity, Diversity, and Inclusion (JEDI) Outreach Group (OG) (DEI initiative)

- Chair-Elect, Jan 2024 – present.
- Chair, Professional Development Committee (PDC), Jan 2022 – Dec 2023.
- Member, PDC, Jan – Dec 2021.

Reviewing & Editing

Editing

- *Founder and Chief Editor:* Stats-of-1: Inference for the Individual.
- *Topic Editor:* Nikles J, **Daza EJ**, McDonald S, Hekler E, Schork N, editors. Creating Evidence from Real World Patient Digital Data. *Frontiers Media SA*, Apr 2021.

Reviewing

- *Articles:* Contemporary Clinical Trials Communications (2023, 2024), BMC Medical Research Methodology (2022, 2023), Behavior Research Methods (2021, 2022), Biometrics (2019), Journal of the Royal Statistical Society - Series A (2019), Translational Behavioral Medicine (2017), American Journal of Clinical Nutrition (2017), The Stata Journal (2017), American Journal of Epidemiology (2016), Statistics in Medicine (2015, 2016)
- *Abstracts:* American Public Health Association 2016 Annual Meeting (2016)

Consultation & Collaboration

Stanford University. Oct 2015 – 2019.

- *Co-investigator* (Epidemiology). Individualized Migraine Attack Prediction with Self-Reported and Passively Collected Data. PI: Lorene Nelson, PhD.
- *Consultant* (Epidemiology). Migraine App Study. PI: Ealon Joelson, MD; co-PI: Lorene Nelson, PhD.
- *Collaborator* (Primary Care and Population Health): Disparities and Culture: Outcomes and Vitality Research (DISCOVeR Lab). PI: Latha Palaniappan, MD, MS.
- *Study Biostatistician* (SPRC). Tobacco-Related Disease Research Program (TR-DRP) Award: Toward Equity in Smokefree Worksite Policies. PI: Judith Prochaska, PhD.

UNC Chapel Hill. Jun 2009 – Sep 2015.

- *Collaborator* (CPC): Malawi Mothers and Infants, sub-study of BAN Study. PI: Margaret E. Bentley, PhD; co-PI: Linda S. Adair, PhD.

Coding Projects

UNC Chapel Hill. 2012 – 2017.

- *Stata:* created command "xtrccipw" for conducting weighted GEE analysis with inverse probability weights for longitudinal data with dropout or truncation

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.

TECHNICAL
SKILLS

Analysis

Statistics: causal inference, n-of-1/single-subject methods, longitudinal/panel analysis, missing data, selection bias (attrition, censoring, truncation), GEE, mixed-effects models, Bayesian inference, survey sampling, time series, survival analysis

Statistical Learning: random forests, elastic net, principal components analysis, multinomial classification, association rule mining

Coding

R, RStudio, Jupyter, Databricks, Domino, Github, SQL, Snowflake, DBeaver, AWS (Athena, EMR, S3, EC2), Spark (Sparklyr, PySpark), Atlassian (Confluence, Jira), Python, Stata, SAS, SUDAAN, Mplus.

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).

PROFESSIONAL
REFERENCES

Hilary Placzek, PhD, MPH (hplaczek@gmail.com)	manager (Clarify)
Volodymyr Serhiyenko, PhD (volodymyr.serhiyenko@gmail.com)	colleague (Clarify)
Lorene Nelson, PhD (lnelson@stanford.edu)	co-PI (N1CPM)
Michael Baiocchi, PhD (baiocchi@stanford.edu)	mentor (SPRC)
Michael G. Hudgens, PhD (mhudgens@email.unc.edu)	diss. advisor (UNC)
Amy H. Herring, ScD (amy.herring@duke.edu)	diss. co-advisor (UNC)
Valerie Flax, PhD (flax@unc.edu)	collaborator (CPC)
Patrick J. Smith, PhD, MPH (smith562@mc.duke.edu)	colleague (UNC)