Olivia Bernstein Morgan

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Education

Ph.D. Statistics   Expected: Summer 2022
M.S. Statistics   June 2019
UC Irvine, Irvine, CA

B.S. Applied Math & B.S. Chemistry   Aug 2017
Biola University, La Mirada, CA

Awards
- NSF Graduate Research Fellowship (2019-2022)
- ARCS Foundation Scholar (2019-2021)
- UCI Statistics Department's Outstanding Graduate Teaching Assistant Award (2018)

Submitted and Published Publications
- "Adjustment for Biased Sampling Using NHANES Derived Propensity Weights" Bernstein, OM; Vegetabile, BG; Salazar, CR; Grill, JD; Gillen, DL. Under revision at *Health Services and Outcomes Research Methodology*.
- "Anxiety and depressive symptoms and cortical amyloid-β burden in cognitively unimpaired older adults" Lewis, CK; Bernstein, OM; Grill, JD; Gillen, DL; Sultzer, DL. *The Journal of Prevention of Alzheimer's Disease.* 2022.
- "Recruitment and retention of participant and study partner dyads in two multinational Alzheimer's disease registration trials" Bernstein, OM; Grill, JD; Gillen, DL. *Alzheimer's Research & Therapy.* 2021.
- "Education and message framing increase willingness to undergo research lumbar puncture: A randomized controlled trial" Witbracht, MG; Bernstein, OM; Lin, V; Salazar, CR; Sajjadi, SA; Hoang, D; Cox, CG; Gillen, DL; Grill, JD. *Frontiers in Geriatric Medicine.* 2020.
- "Reinterpreting the infrared spectrum of H + HCN: Methylene amidogen radical and its coproducts" Wiens, AE; Copan, AV; Rossomme, EC; Aroeira, GJR.; Bernstein, OM; Agarwal, J; Schaefer, HF. *The Journal of Chemical Physics.* 2018.
- "Fluorescent pseudorotaxanes of a quinodicarbocyanine dye with gamma cyclodextrin" Bernstein, OM; McGee, TE; Silzel, LE; Silzel, JW. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.* 2018.

Manuscripts in Preparation
- "Propensity Scores in Biased Samples" Bernstein, OM; Vegetabile, BG; Gillen, DL.

Teaching Experience
- Teaching Assistant, Basic Statistics—UC Irvine   Fall 17, Winter 18, Spring 18
  - Won Outstanding Graduate Teaching Assistant Award in 2018

Invited Presentations
- Using Statistics in Neuroscience—Talk at the Center for the Neurobiology   Aug 2019
  of Learning & Memory Brain Camp at UCI
- Study Partner Type in Industry-Sponsored Alzheimer's Disease   Dec 2019
  Registration Clinical Trials—Poster at the Clinical Trial in Alzheimer's Disease Conference
- Estimating Sampling Weights for Convenience Samples Using NHANES—Presentation at   June 2020
  the Western North American Region of The International Biometric Society paper competition
- Estimating Sampling Weights for Convenience Samples Using NHANES—Poster at the   Aug 2020
  Joint Statistical Meetings
- Careers in Statistics and Data Science—Talk at Esperanza High School   May 2021
- Education and Message Framing Increase Willingness to Undergo Research
  Lumbar Puncture—Talk at Biola University's Math Department   Nov 2021

Journal Reviewer
- Alzheimer's & Dementia
- Electronic Journal of Statistics

Service
- Outcomes Committee Co-Chair—Center for the Neurobiology of Learning & Memory Ambassador Program at UCI — Jan 2019 – June 2021
- Representative—Diverse Educational Community and Doctoral Experience (DECADE) at UCI — Feb 2018 – June 2018
- Treasurer—American Chemical Society Club at Biola University — Aug 2016 – May 2017
- Student Representative—School of Science, Technology, and Health Strategic Planning and Steering Committee at Biola University — Sep 2016 – May 2017
- Senator—Student Government Association at Biola University — Apr 2015 – May 2016

Experience

Data Science Intern — May 2021 – August 2021
Facebook, Menlo Park, CA
- Conducted data analyses to explore user behaviors and business insights
- Communicated recommendations for improving products
- Designed and analyzed randomized experiments to compare ranking models

Reporting Data-Analyst Intern — Jan 2017 – Sep 2017
Open Doors USA, Santa Ana, CA
- Automated financial reporting saving 4 days of work each month by moving Excel dashboards to Tableau
- Created plots and presented results to finance and communications teams to identify likely donors
- Researched similar organizations and analyzed industry trends

Summer Undergraduate Research Fellowship — June 2016 – Aug 2016
Center for Computational Quantum Chemistry, University of Georgia, Athens
- Computed chemical properties of methylene amidogen using quantum chemistry methods
- Investigated discrepancies between theoretical and experimental results
- Completed quantum chemistry programming projects in python

Intern and Research Assistant — May 2015 – Jan 2016
Innovative BioDefense, Inc., Lake Forest, CA
- Researched safety, efficacy, and usage data for antiseptic active ingredient, benzethonium chloride
- Compiled and wrote an argument paper to be presented to the FDA
- Discovered and obtained old Bactine antiseptic bottles to prove it contained benzethonium chloride to establish historical use

Programming Languages and Software: R, SQL, Python, Tableau, Matlab, Excel, LaTeX, Bash