Vahan Aslanyan

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EDUCATION

University of Southern California **Los Angeles, CA**
Biostatistics, **PhD** May 2025
Dissertation Topic:Adaptive Randomization in Randomized Controlled Trials with Applications in Alzheimer's Disease
University of California, Berkeley **Berkeley, CA**
Applied Mathematics & Statistics, **BA** May 2018

EXPERIENCE

Keck School of Medicine of USC **Los Angeles, CA**
Research Assistant August 2020—Present

- Presented research projects to an audience of 1000+ research experts in international conferences.
- Completed 2 independent and 5 collaborative research projects and published in leading scientific journals.
- Designed a new randomization approach to minimize allocation of patients to inferior treatments.
- Led analytical strategies for 10+ research projects to streamline project completion.
- Collaborated with cross-functional teams of 20 to develop study protocols and statistical analysis plans.
- Conducted statistical analyses in SAS, R, STATA, and Python, delivering comprehensive result interpretations.
- Transitioned analytical pipelines from MATLAB to R by building data processing tools and templates.
- Taught *Data Analysis for Categorical Data* to a class of 25 graduate students for a semester.
- Advised clinical faculty and graduate students in best statistical practices and mentored project assistants.

Institute of Neuroimaging and Informatics, Keck School of Medicine of USC **Los Angeles, CA**
Project Assistant June 2018—August 2020

- Integrated data from 4 multisite aging cohort studies, totalling over 30,000 participants.
- Implemented pipelines for brain image segmentation and cut processing time by 40%.
- Created dashboards in R Shiny for efficient exploratory analysis of cohorts.
- Produced code templates for automatic scoring of cognitive tests and saved $3000 in yearly licensing fees.
- Led monthly R workshops for lab members, helped to migrate research projects to R, and increased lab productivity.

SKILLS

Data Analysis & Management: R, STAN, SAS, STATA, Python, SQL, Julia.
Statistical Methodology: Survival Analysis, Longitudinal Modeling, Analysis of Variance.
Statistical Approaches: Causal Inference, Bayesian Inference.
Study Design: Power Analysis, Protocol and Statistical Analysis Plan writing.
Neuroimaging: Freesurfer, SPM, CAT12, AFNI.
Miscellaneous: Git and GitHub, Bash, MATLAB, Adobe Illustrator.

PROJECTS

Exercise in Adults With Mild Memory Problems (EXERT) [Phase III] June 2022–Present

- Validated study findings in SAS to ensure accuracy and performed ad hoc analyses for exploratory objectives.
- Spearheaded post hoc analyses to contextualize study findings for general public.
- Produced Tables, Listings, and Figures (TLFs) in R, Excel, and Adobe Illustrator to publish, present, and distribute.

Safety, Tolerability, PK and PD of Posiphen (DISCOVER) [Phase Ib] August 2022–Present

- Validated primary findings in R to ensure accuracy and evaluated exploratory objectives.
- Generated TLFs for inclusion in publications, conference presentations, and regulatory filings.
- Implemented stable isotop labeling kinetics algorithms in Julia to evaluate protein production rates.

Lifestyle Enriching Activities for Research in Neuroscience (LEARN-it) [Exploratory] July 2018–Present

- Managed data processing and integration pipelines for 12 cognitive batteries to reduce evaluation errors.
- Executed statistical analysis plans for comparing two interventions across various outcomes.
- Drafted regulatory reporting documents and TLFs for compliance reporting, publishing and presenting.