

# Vahan Aslanyan

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## EDUCATION

**University of Southern California**

*Biostatistics, PhD*

*Dissertation Topic:* Adaptive Randomization in Randomized Controlled Trials with Applications in Alzheimer's Disease

**University of California, Berkeley**

*Applied Mathematics & Statistics, BA*

**Los Angeles, CA**

May 2025

**Berkeley, CA**

May 2018

## EXPERIENCE

**Keck School of Medicine of USC**

*Research Assistant*

**Los Angeles, CA**

August 2020—Present

- Presented research projects to an audience of 1000+ research experts in international conferences.
- Completed 3 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**

*Project Assistant*

**Los Angeles, CA**

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 isotope 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.