




























# ROUPEN KHANJIAN



## PROFESSIONAL EXPERIENCE

- Present  
|  
2021
- **Data Analyst**  
UpTogether  Oakland, California
    - Wrangling data and conducting statistical analysis in order to create reproducible reports in R Markdown and Quarto.   
    - Building internal Shiny dashboards that extract data from multiple sources and summarize complex data into meaningful visualizations.   
    - Collaborating with other verticals on best practices regarding analytical decisions.  
- 2017  
|  
2016
- **Video Analyst**  
Portland Trail Blazers  Portland, Oregon
    - Tracked statistical data from NBA game tape to help create scouting reports for the Portland Trail Blazers.
- 2016  
|  
2013
- **Research Assistant II**  
Oregon Health & Science University (OHSU)  Portland, Oregon
    - Developed a new protocol to pinpoint which cells in the retina contain Calcium-Permeable AMPA receptors. 
    - Measured fluorescence intensity of the Kv2.2 antibody on photoreceptors with ImageJ; organized data via IgorPro and Excel. 
    - Investigated the contributions of opioid-sensitive neurons in the brainstem using in-vivo single cell electrophysiology. 





## EDUCATION

- 2021  
|  
2018
- **University of California, Santa Barbara (UCSB)**  
Master of Arts in Statistics  Santa Barbara, CA
    - Statistical Data Science 
    - Design of Experiments 
    - Statistical Machine Learning 
    - Advanced Statistical Methods 
    - Big Data Analytics  
    - Spatial Statistics 
    - Time Series Analysis 
    - Advanced Data Analysis   
- 2012  
|  
2009
- **University of California, Berkeley**  
Bachelor of Arts in Psychology  Berkeley, CA  
Bachelor of Arts in Molecular and Cell Biology

## TEACHING EXPERIENCE

- 2021  
|  
2018
- **Regression Analysis**  
Teaching Assistant (TA) for PSTAT 126  UCSB 
    - Created weekly tutorials on using R to conduct linear regression.
    - Aided students troubleshoot and debug R code for homeworks.




## CONTACT INFO

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 [github.com/khanjian](https://github.com/khanjian)





## SKILLS

 R |  Python  
 SQL |  Microsoft Excel  
 Apache Spark |  Github  
 BI tools |  CSS  
 Presentations |  Labwork






Բարեւ աշխարհ  
Fluent in Armenian


- 2021  
|  
2018
- **Statistics for Economics**  
TA for PSTAT 109  UCSB  
 • Designed & administered quizzes based off statistical concepts.  
 • Facilitated weekly Microsoft Excel problem sets.
  - **Principles of Data Science with R**  
TA for PSTAT 10   UCSB  
 • Assisted students in learning statistical programming using R.  
 • Helped students understand relational database management systems and data manipulation using SQL.

## PROJECTS

- 2021
- **What's in a Word? A Shiny App for Text Analysis**  
Final project for ESM 244 (Advanced Data Analysis)   UCSB  
Khanjian R.A., Handy, M., Shen R.
- 2020
- **Stop and Frisk in New York City from 2017 - 2019**  
Final project for PSTAT 234 (Statistical Data Science)   UCSB  
Khanjian R.A..

## SELECTED PUBLICATIONS AND POSTERS

- 2023
- **Aortic sinus morphology is predictive of left ventricular mass and other clinical features in subjects with bicuspid aortic valve**  
*Manuscript in preparation*   
Dally M, Xiao-Yue H, **Khanjian R.A.**, Silberbach G.M.
- 2022
- **Calcium-permeable AMPA receptors on AII amacrine cells mediate sustained signaling in the On-pathway of the primate retina.**  
*Cell Reports 41, 111484*   
Percival P.A, Gayet J., **Khanjian R.**, Taylor W.R., Puthussery T.
- 2018
- **Heteromeric Kv2/Kv8.2 channels mediate delayed rectifier potassium currents in primate photoreceptors.**  
*JNeurosci; 38: 3414–3427.*   
Gayet-Primo J., Yaeger D.B., **Khanjian R.A.**, Puthussery T.
- 2016
- **Identification of neuronal populations that express calcium permeable AMPA receptors in mouse and macaque retina.**  
*Poster for the Association for Research in Vision & Ophthalmology (ARVO) conference.*   
Seattle, WA  
**Khanjian R.A.**, Puthussery T.
- 2015
- **Cellular mechanisms of activity-dependent BDNF expression in primary sensory neurons.**  
*Neuroscience; 310: 665–673.*   
Vermehren-Schmaedick A., **Khanjian R.A.**, Balkowiec A.

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