





















ROUPEN KHANJIAN




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  
- 2018
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2017
- **Portland State University**
Post-Baccalaureate  Portland, OR
- Linear Algebra
 - Group Theory
 - Ordinary Differential Equations
 - Mathematical Statistics
- 2012
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2009
- **University of California, Berkeley**
Bachelor of Arts in Psychology  Berkeley, CA
Bachelor of Arts in Molecular and Cell Biology
- Data Analysis in Psychology
 - Cognitive Neuroscience





TEACHING EXPERIENCE

- Winter 2021
Winter 2020
- **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.
- Fall 2020
Summer 2020
Fall 2019
Fall 2018
- **Statistics for Economics**
TA for PSTAT 109   UCSB
- Designed & administered quizzes based off statistical concepts.
 - Facilitated weekly Microsoft Excel problem sets.
- Spring 2020
Summer 2019
Spring 2019
Winter 2019
- **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

- Winter 2021
- **What's in a Word? A Shiny App for Text Analysis**
Final project for ESM 244 (Advanced Data Analysis)    UCSB
Khanjian R.A., Shteyn, M., Shen R.

CONTACT INFO

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 github.com/khanjian
 (818) 621-5403

SKILLS

 R |  Python

 SQL |  Microsoft Excel




 Apache Spark |  Github

 Presentations |  Labwork

Բարեւ աշխարհ
Fluent in Armenian

Spring
2020




Stop and Frisk in New York City from 2017 - 2019

Final project for PSTAT 234 (Statistical Data Science)    UCSB

Khanjian R.A..

Fall
2019

Dimension Reduction with Karhunen-L  ve Decomposition, Empirical Orthogonal Function and Maximum Covariance Pattern

Final project for PSTAT 262ST (Spatial Statistics)    UCSB

Khanjian R.A., Zhang C.




PROFESSIONAL EXPERIENCE

2017
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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
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2015

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. 

2014
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2013

Research Assistant II

OHSU

 Portland, Oregon

- Investigated the contributions of opioid-sensitive neurons in the brainstem using in-vivo single cell electrophysiology. 

Principal Investigator:
Dr. Teresa Puthussery

Principal Investigator:
Dr. Mary Heinricher



SELECTED PUBLICATIONS AND POSTERS

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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