

# Thanasi Bakis

✉ thanasibakis@gmail.com | 📱 thanasibakis

Graduate student seeking an educational experience with machine learning in the industry.

## Education

### University of California, Irvine

M.S. STATISTICS

Irvine, CA

2020 - 22

### University of California, Irvine

B.S. DATA SCIENCE, SUMMA CUM LAUDE (GPA: 3.9)

Irvine, CA

2017 - 20

- **Bayesian Statistics** in R
- **Computational Photography** in Python
- **Data Structures** in C++
- **Database Design** in SQL
- **Deep Learning** in Python
- **Generalized Linear Modeling I-III** in R
- **Machine Learning** in Python
- **Probability and Mathematical Statistics I-III**

## Technical Experience

### Department of Statistics, UC Irvine

GRADUATE RESEARCH ASSISTANT

Irvine, CA

Oct 2020 - Dec 2020

- Analyze and visualize university COVID-19 testing data, observing trends using a one-week sliding window.
- Automate a weekly situation report for internal administrative use via R Markdown, concisely communicating disease incidence and test result turnaround times.

### MUGIC

RESEARCH ASSISTANT

Irvine, CA

Jan 2020 - Sep 2020

- Implemented an algorithm attempting to track the position of an accelerometer in real time, filtering and integrating noisy data in batches.
- Leveraged principal component analysis and dimensional projection to communicate the data in the context of a musician wearing the sensor with their violin.

### Cognition and Individual Differences Lab, UC Irvine

RESEARCH ASSISTANT

Irvine, CA

Jun 2019 - Aug 2019

- Performed feature engineering on several gigabytes of time series EEG data.
- Maintained an efficient runtime with parallel computation on a remote server.
- Constructed linear models to examine relationships with the EEG peaks.

### Department of Computer Science, UC Irvine

READER

Irvine, CA

Oct 2018 - Jun 2020

- Graded homeworks for up to 700 discrete math students, giving feedback throughout.
- Thoroughly proofread and graded exams to ensure correctness.

### iD Tech Camps

INSTRUCTOR

Pomona, CA

Jul 2018 - Aug 2018

- Instructed classes teaching basic cryptography, Python, and Java app development.
- Designed lesson plans accessible to middle and high school students.

### So Cal Cybersecurity Community College Consortium

MENTOR

Irvine, CA

Dec 2017 - Jun 2019

- Led workshops about Linux server operation and hardening.
- Designed lesson plans accessible to middle and high school teams.

### Cyber Security Program, Troy High School

LINUX INSTRUCTOR AND TEAM CAPTAIN

Fullerton, CA

Oct 2015 - May 2017

- Developed a comprehensive Linux hardening curriculum from which I taught my high school's cybersecurity program of over 100 students.
- Created virtual machine images with security vulnerabilities for student practice alongside lessons.

## Non-Technical Experience

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### Housing Administrative Services, UC Irvine

STUDENT HOUSING ADVISOR

Irvine, CA

Jun 2019 - Aug 2020

- Led engaging and informative housing tours to newly admitted families.
- Delivered concise and accurate information to walk-in and phone clients.

### Resident Housing Association, UC Irvine

PRESIDENT

Irvine, CA

Aug 2018 - Jun 2019

- Developed action committees to advocate for the needs of 6,000 residents.
- Created agendas and ran efficient weekly meetings for a fifteen-member board.
- Represented the University at regional conferences with fifty schools in attendance.

### Middle Earth Community Council, UC Irvine

PRESIDENT

Irvine, CA

Aug 2017 - Jun 2018

- Programmed community events to address the needs of 1,800 residents.
- Coordinated with a team of five to deliver events weekly without sacrificing quality.
- Created a spreadsheet to analyze event attendance with respect to topic and time.

## GitHub Highlights

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### data2sound

SONIFICATION OF TIME SERIES DATA TO THE MIDI FORMAT

2020

### Undergraduate Data Science Capstone

DOES THE NEWS SWAY PUBLIC MUSIC TASTE?

2020

### Resume Builder

A DATA-DRIVEN TOOL TO BUILD THIS RESUME

2020

### Score Modeler

VISUALIZING GRADE DISTRIBUTIONS UNDER NORMAL AND BETA DISTRIBUTION ASSUMPTIONS

2019

## Achievements

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### CyberPatriot National Finals - Cyber Security Competition

9TH PLACE TEAM, OF 2200

Apr 2017

### Cal State LA ProgFest - Java Competition

1ST PLACE TEAM, OF 20

Feb 2017

### OC Register Artist of the Year

SEMIFINALIST FOR ALTO SAXOPHONE

Feb 2017

### California Congressional App Challenge - Android Development Competition

3RD PLACE TEAM

Feb 2016

### Lockheed Martin Code Quest - Java Competition

1ST PLACE TEAM (TWICE), 3RD PLACE TEAM, OF 20

Apr 2015 - Apr 2017