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# Kevin Nguyen

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## EDUCATION

### Oregon Health & Science University, Portland, OR

Jul 2023 - Present

*Master of Science in Health and Clinical Informatics*

*Relevant Coursework: Introduction to Biomedical Informatics, Evidence-Based Medicine, Databases, Standards for Interoperability, Analytics for Healthcare, Software Engineering*

### University of California, San Diego, San Diego, CA

Sep 2019 - Jun 2023

*Bachelor of Science in Public Health, Concentration in Epidemiology, Minor in Mathematics*

*Relevant Coursework: Biostatistical Methods, Data Science for Digital Health, Qualitative Research, Epidemiology, Data Analysis and Inference, Math Statistics, Computational Statistics*

## SKILLS

**Programming Languages:** R, Python, Matlab, Javascript

**Software:** Microsoft Word, Microsoft Powerpoint, Microsoft Excel, Tableau, Google Data Studio, Google Analytics, SPSS, JMP, ArcGIS, MAXQDA

**Languages:** English, Vietnamese, Spanish

**Other:** Network Modeling, Linear & Logistic Regressions, Hypothesis Testing, Random Forest Analysis, AB Testing, Classification and Clustering

## WORK/RESEARCH EXPERIENCE

### HIV Network Modeling, San Diego, CA

Jan 2022 - Present

*Network Modeler*

- Building an R package developing a network model that surpasses the points where convergence/steady state for Erdős–Rényi and Barabási–Albert networks fail.
- Modify code to conduct statistical network analysis focused on the development of novel HIV methods and execute code on high-performance computing clusters to assess the performance of the novel methods.

### Oregon Health Authority, Portland, CA

Jan 2022 - Present

*Visualization Developer*

- Work closely with state investigators and epidemiologists to develop an HIV dashboard using various federal and state data sources such as HIV Trace, eHARS, ORPHEUS, and other Care related datasets using R Shiny.

### Open Digital Health Initiative Living Review & Database, San Diego, CA

Nov 2022 - Sep 2023

*System Evaluator*

- Developing an open database that has the information and code of preexisting digital health technologies.
- Analyzing feedback and suggestions from digital health experts about vital database features.

### CA Notify, San Diego, CA

Dec 2020 - Jun 2023

*Research & Data Analyst*

- Collaborated with Google, Apple, UCSD Health, and the CDPH to analyze the data gathered from the CA Notify system on smart devices.
- Contributions include working on dashboards to send to the government as well as performing different statistical analyses to measure trends of counties across California.

### UCSD Business Outreach Project, San Diego, CA

Oct 2020 - Jun 2021

*Outreach Analyst*

- Worked with the Treasury of San Diego to provide information to local businesses about new policies implemented during the pandemic to keep both their employees and customers safe.
- Analyzed the data gathered by the entire team and created visuals to help understand the extent of the outreach that was being done.

#### **Qualcomm Institute, San Diego, CA**

*Oct 2020 - Mar 2021*

##### *Data Analyst*

- Built a predictive analysis model coded in Python with a team to predict future outbreaks of COVID-19 down to the county level from Google, Apple, and Waze's Mobility Reports, Yelp's daily reviews, and other open datasets.

## **INSTRUCTIONAL EXPERIENCE**

### **UCSD Herbert Wertheim School of Public Health and Human Longevity Science, San Diego, CA**

#### *Undergraduate Instructional Assistant*

*FMPH 101: Epidemiology (Professor Marva Lynn Seifert)*

*Jan 2023 - Mar 2023*

*FMPH 102: Biostatistics (Professor Brinda Rana)*

*Sep 2021 - Dec 2021*

- Helped undergraduate public health students through a quarter of epidemiology for a full school term including setting up times outside of class to aid around 10 students per hour about their homework and previous/upcoming exams.
- Served as a point of contact for assignment aid as well as other class/major related inquiries among various platforms such as email, Canvas, and even Discord.

## **LEADERSHIP EXPERIENCE**

### **UCSD ACM AI, San Diego, CA**

*Dec 2021 - Jun 2022*

#### *Social Chair*

- Helped retain and introduce new members to a relatively new organization at UCSD.
- Am one of the few people who take on the task of helping people interact and focus on other topics as well such as through various games and events.

### **Flying Samaritans at UCSD, San Diego, CA**

*May 2020 - Aug 2021*

#### *Social Chair*

- Held social events for both general and board members of the organization during remote instruction at UCSD.

## **PROJECTS**

### **Qualitative Health Research Project, San Diego, CA**

*Mar 2020 - Jun 2020*

#### *Student*

- Conducted a qualitative experiment that looked at how college students at UCSD dealt with mental health issues that arose under the stay-at-home order under the COVID-19 pandemic.

### **Project Vietnam Foundation Bright Futures, Fountain Valley, CA**

*Mar 2018 - Aug 2018*

#### *Lead*

- Helped bring more mental health awareness to individuals in Orange County to combat the lack of mental health awareness in the Asian community.

## **PUBLICATIONS**

Aronoff-Spencer E, Nebeker C, Wenzel AT, **Nguyen K**, et al. Defining Key Performance Indicators for the California COVID-19 Exposure Notification System (CA Notify). Public Health Reports. 2022;0(0). doi:10.1177/0033354922112935

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Aronoff-Spencer E, Mazrouee S, Graham R, Handcock MS, **Nguyen K**, et al. Exposure notification system activity as a leading indicator for SARS-COV-2 caseload forecasting. PLOS ONE 18(8): e0287368. <https://doi.org/10.1371/journal.pone.0287368>

## **PRESENTATIONS**

**Bachelor of Science in Public Health (BSPH) Annual Scientific Poster Session, San Diego, CA, June 2022.** Dooraghi M; Hafey C; Kelayan M; **Nguyen K**; Vinekar A. "Prevalence of adverse maternal outcomes among racial and ethnic minorities in the United States Territories" (poster).

## **CERTIFICATES**

R for Data Analytics (UC San Diego, June 2022)