

Manar Alkuzweny

Curriculum Vitae

July 1, 2021

Contact Information

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Department of Biological Sciences
University of Notre Dame
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Education

- 2021-present **Ph.D., Biological Sciences**
University of Notre Dame
Advisor: Alex Perkins
- 2017-2021 **B.S., Public Health with Concentration in Epidemiology**
Minor in General Biology
University of California, San Diego
Highest distinction in the major; *summa cum laude*

Honors and Awards

- 2021 **Independent Study in Public Health Research Award**
Herbert Wertheim School of Public Health and Human Longevity Science
University of California, San Diego
- 2021 **Outstanding Scholastic Achievement Award in the Public Health Major**
Herbert Wertheim School of Public Health and Human Longevity Science
University of California, San Diego
- 2020 **Phi Beta Kappa**
Sigma Chapter of California
- 2020 **Barry Goldwater Scholarship nominee**
University of California, San Diego
- 2020 **Caledonian Society**
John Muir College at University of California, San Diego
- 2019 **Third place poster in undergraduate division**
UC San Diego Institute for Public Health 5th Annual Public Health Research Day

Scholarships and Fellowships

- 2021-present **Richard and Peggy Notebaert Premier Fellowship**

- Offered to those ranked in the top 1% of all students admitted to doctoral study, provides up to 5 years of support
University of Notre Dame
- 2019 **Chancellor's Summer Research Scholarship for Social Sciences**
Awarded \$5000 to conduct proposed research project in the social sciences
University of California, San Diego
- 2017-2021 **Regents Scholarship**
Four-year scholarship awarded on the basis of academic excellence to UC undergraduates
University of California, San Diego

Publications

2. **Alkuzweny M**, Raj A, Mehta SR. (2020). Preparing for a COVID-19 surge: ICUs. *EClinicalMedicine*, 25:100502. doi: 10.1016/j.eclinm.2020.100502
1. **Alkuzweny M**, Raj A, Mehta SR. (2020). Preparing for a COVID-19 surge. *EClinicalMedicine*, 23:100400. doi: 10.1016/j.eclinm.2020.100400

Presentations

9. **Alkuzweny M**, Hofmann N, Taggart K, Verma D. (May 2021). "Evaluating the Return to Learn Program Utilizing Ecological Momentary Assessment." The 34th Annual Undergraduate Research Conference at UC San Diego. Oral presentation.
8. Stone MD, Strong DR, Brighton E, Oratowski J, Yang T, **Alkuzweny M**, Asslani A, Velasco K, Skipworth M, Hurst S, Pulvers K, Pierce J. (February 2021). "Measuring Reactivity to Warnings on Cigarette Packaging." Society for Research on Nicotine and Tobacco 27th Annual Meeting. Poster.
7. **Alkuzweny M**, Gangavarapu K, Hughes LD, Mullen JL, Cano M, Rush B, Tsueng G, Zhou J, Andersen KG, Wu C, Su AI. (January 2021). "Improving standardization and accessibility of epidemiological data with the 'outbreakinfo' R package." NSF Student Conference on COVID-19 Modeling. Oral presentation.
6. **Alkuzweny M**, Raj A, Mehta SR. (October 2020). "Hospital Capacity and COVID-19 Mortality in the United States." COVID-19 Dynamics & Evolution scientific meeting. Poster.
5. **Alkuzweny M**, Mullen JL, Hughes LD, Gangavarapu K, Cano M, Rush B, Tsueng G, Zhou J, Andersen KG, Wu C, Su AI. (September 2020). "Order from Chaos: outbreak.info, a Standardized Collection of COVID-19 Resources and Epidemiological Data." NIAID Systems Biology for Infectious Diseases Annual Meeting. Poster.
4. **Alkuzweny M**, Raj A, Mehta SR. (May 2020). "Hospital Capacity and COVID-19." Online Undergraduate Research Symposium at UC San Diego. Oral presentation.
3. Strong DR, Stone MD, **Alkuzweny M**, Asslani A, Yang T, Pierce J. (March 2020). "Assessing Nicotine Withdrawal in The Population Assessment of Tobacco and Health (PATH) Study: Impacts of Types of Users and Products Used." Society for Research on Nicotine and Tobacco 26th Annual Meeting, New Orleans, LA. Poster.

2. **Alkuzweny M**, Mehta SR. (August 2019). “Factors Associated with Visceral Leishmaniasis Burden in Bihar, India.” Summer Research Conference at UC San Diego, University of California, San Diego, La Jolla, CA. Oral presentation.
1. **Alkuzweny M**, Mehta SR. (April 2019). “Association of Visceral Leishmaniasis Incidence with Prevalence of Anemia and Socio-economic Status in Bihar, India.” UC San Diego Institute for Public Health 5th Annual Public Health Research Day, University of California, San Diego, La Jolla, CA. Poster.

Teaching experience

Undergraduate instructional apprentice

- Winter 2021 Biostatistics in Public Health (upper-division undergraduate course)
University of California, San Diego
- Spring 2020 Epidemiology (upper-division undergraduate course)
University of California, San Diego

Research experience

- 2020-2021 **Undergraduate Researcher**
Scripps Research
Advisor: Kristian G. Andersen, Ph.D.
Developed R package for outbreak.info, a site that aggregates and standardizes COVID-19 epidemiological and genomic data
- 2018-2021 **Undergraduate Researcher**
University of California, San Diego, Tata Institute for Genetics and Society
Advisor: Sanjay R. Mehta, M.D.
Investigated factors that affect visceral leishmaniasis burden in Bihar, India
Analyzed impacts of hospital capacity on COVID-19 mortality in the U.S.
- 2018-2021 **Research Intern**
University of California, San Diego, Moores Cancer Center
Advisor: David R. Strong, Ph.D.
Recruited participants, entered and managed data, and transcribed and qualitatively analyzed interviews from clinical trial assessing impacts of graphic warning labels on smoking behavior

Skills

R, Python, ArcGIS, SPSS