

# Lujain Alassaf

[lalassaf@stanford.edu](mailto:lalassaf@stanford.edu) ▪ (650) 675-8223

## EDUCATION

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**Stanford University** Stanford, California  
*Master of Science in Health Policy, School of Medicine* September 2023 - 2025

**KING SAUD BIN ABDULAZIZ UNIVERSITY FOR HEALTH SCIENCE** Riyadh, Saudi Arabia  
*Master of Public Health in Epidemiology and Biostatistic* January 2022

- Thesis: “Community-based Seroprevalence of SARS-CoV-2 in Saudi Arabia”
- GPA: 4.00/4.00
- Awards: Best Oral Presentation in the 6th Annual Research Day

**PRINCESS NOURAH BINT ABDULRAHMAN UNIVERSITY** Riyadh, Saudi Arabia  
*Bachelor of Science in Epidemiology* January 2017

- GPA: 3.24/4.0
- Awards: Second Class Honor

## WORK EXPERIENCE

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**CENTER FOR NATIONAL HEALTH INSURANCE** Riyadh, Saudi Arabia  
**Epidemiology Senior Specialist and Health Data Analyst** October 2022 - July 2023

- Building a segmentation model to serve as the basis for the national insurance strategy.
- Collaborating with various national health entities to develop unified data quality standards and policies.
- Conducting predictive analytics for national healthcare needs and costs.
- Developing the center’s data governance strategy.

**PUBLIC HEALTH AUTHORITY** Riyadh, Saudi Arabia  
**Epidemiologist and Project Manager** January 2019 - May 2021

- Project manager for “Determinants of life expectancy in Saudi Arabia”, one of Vision 2030 key initiatives
- Designed and implemented a framework for data collection, extraction, and transformation.
- Conducted a literature search to identify discrepancies in national health databases and collaborated with data-owners to establish common standards.
- Reported comprehensive epidemiological metrics and generated interactive visualizations presented to relevant entities.

**MINISTRY OF HEALTH** Riyadh, Saudi Arabia  
**Epidemiologist (Field Epidemiology Training Program)** March 2018 - September 2022

- Designed outbreak investigation questionnaires to be implemented.
- Participated in writing scientific reports supported with statistical analysis and visualizations.
- Participated in analysis and interpretations of the active surveillance and response measures for the scabies outbreak in western Saudi Arabia in 2018.
- Acted as a liaison between the Ministry’s epidemiology program and the US’s CDC.
- Coordinated meetings and facilitated communications between FETP programs in the Middle East.
- Coordinated the FETP participation in the annual TEPHINET conference in 2022.

## PUBLICATIONS

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- 1- AlQarni, A. M., AlAbdulKader, A. M., Alghamdi, A. N., Altayeb, J., Jabaan, R., **Assaf, L.**, & Alanazi, R. A. (2023). Prevalence of Digital Eye Strain Among University Students and Its Association with Virtual Learning During the COVID-19 Pandemic. [Clinical Ophthalmology](#), 1755-1768.
- 2- Alibrahim B, Sharaheeli J, **Alassaf L**, et al. (2022) Risk Assessment of Cardiovascular Disease Among Adults Attending Primary Healthcare Centers in Riyadh City 2015 . [Cureus 14\(12\): e32503. doi:10.7759/cureus.32503](#)
- 3- **Alassaf L**, Almudarra S, Almudaiheem A, et al. (2022) Community-Based Seroprevalence of SARS-CoV-2 in Saudi Arabia. [Cureus 14\(12\): e32419. doi:10.7759/cureus.32419](#)
- 4- Alqarni AA, Alharthi SA, Alyousef LA, Alramyan RK, Alshaalan RI, **Alassaf LA**. (2021) Emergency surgery for obstructing or perforated colon cancer; rate of re-intervention and prognostic factors: A single center study. [Medical Science, 2021, 25\(118\), 3288-3302.](#)
- 5- Abd-Ellatif, E. E., Alhomidan, L., **Al-Assaf, L.**, AlGhamdi, L., Alharbi, A., Albeladi, O. A., AlQusibri, A., El Rahman, S. A., & Almudarra, S. S. (2021). Assessment of knowledge, attitudes and practices concerning travel health among hajj pilgrims (1439 H- 2018 G) at Prince Mohammad bin Abdulaziz International Airport in AL-Madina, Saudi Arabia. [Global Journal of Health Science, 13\(12\), 39.](#)
- 6- AlFattani, A., Rabhan, F., **AlAssaf, L.**, Alghammas, A. and De Vol, E., (2020). National survey about awareness of primary immunodeficiency disorders among primary care physicians in Saudi Arabia: Protocol and challenges. [Journal of Primary Care & Community Health. 11. 215013272095128. 10.1177/2150132720951288.](#)

## PRESENTATIONS

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- 1- Alassaf, L. (2022, January 19). *Community-based Seroprevalence of SARS-CoV-2 in Saudi Arabia* [Conference Presentation]. 6th Annual Research Day, King Saud bin Abdulaziz University for Health Sciences, Riyadh, Saudi Arabia.

## RESEARCH EXPERIENCE

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### KING FAISAL SPECIALIST HOSPITAL AND RESEARCH CENTRE

Riyadh, Saudi Arabia

#### Epidemiology Intern

February 2017 - February 2018

- Research project manager for “Primary Care Physicians Awareness towards Primary immunodeficiency Disorder.”
- Participated in study designing, data collection and analysis, and reporting.
- Project member at the “Biostatistics, Epidemiology and Scientific Computing Wellness” Program.
- Conducted literature review, finalized proposal, and carried out IRB submission.
- Participated in building surveys and interviewing participants and entered data using REDCap software.

### PRINCE SULTAN MEDICAL MILITARY CITY

Riyadh, Saudi Arabia

#### Research Intern

Summer 2016

- Conducted periodic reviews to ensure hospital staff safety compliance to preventive precautions.
- Assisted in infection prevention and control study.
- Collected and analyzed data on staff behavior and risk perception using SPSS to identify gaps in quality care.

## CERTIFICATES

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| • <a href="#">Linear Algebra, Georgia Tech, edX</a> (1 semester)   | December 2022 |
| • <a href="#">Introductory Linear Algebra, Georgia Tech, edX</a>   | December 2022 |
| • <a href="#">Applications of Linear Algebra, Georgia Tech, edX</a>  | December 2022 |
| • <a href="#">Mathematics for Machine Learning: Linear Algebra, Imperial College London, Coursera</a>        | Dec 2022      |
| • <a href="#">Mathematics for Machine Learning: Multivariate Calculus, Imperial College London, Coursera</a> | Dec 2022      |
| • <a href="#">R programming, Johns Hopkins University, Coursera</a>  | May 2022      |

- [The Data Scientist's Toolbox, Johns Hopkins University, Coursera](#) May 2022
- Foodborne Diseases Outbreak Investigation, World Health Organization (WHO) September 2022
- Project Management Program, International Business Management Institute (IBMI) June 2022
- Risk Management, International Business Management Institute (IBMI) June 2022
- American Heart Association, Basic Life Support (BLS) December 2021
- Protecting Human Research Subjects, The National Institutes of Health (US NIH) January 2021
- Epidemiology Specialist Professional License, Saudi Commission for Health Specialties March 2018

## SKILLS

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- **Statistical software:** SPSS, Stata, RStudio, JMP, Epi Info
- **Project Management:** REDCap

## VOLUNTEER EXPERIENCE

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### PRINCESS NOURAH BINT ABDULRAHMAN UNIVERSITY

Riyadh, Saudi Arabia

**Volunteer:** Assistant Lecturer

October 2018

- Taught biostatistics principles and tools course to a group of upcoming college students for 3 weeks.

## REFERENCES

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### Ada Al-Qunaibet, MD, MME PhD

Chief Officer of Public Health Intelligence and Lead Epidemiologist

Public Health Authority, Riyadh, Saudi Arabia

[amqunaibet@cdc.gov.sa](mailto:amqunaibet@cdc.gov.sa)

### Yasmin Almubarak Altwaijri, Ph.D.

Senior Scientist and Head of Epidemiology at King Faisal Specialist Hospital and Research Centre

Visiting Scholar in Health Care Policy at Harvard Medical School

[yasmint@kfshrc.edu.sa](mailto:yasmint@kfshrc.edu.sa)

### Rufaidah Al Dabbagh, MBBS, MPH, DrPH

Assistant Professor of Public Health at King Saud University - College of Medicine

Riyadh, Saudi Arabia

[rdabbagh@ksu.edu.sa](mailto:rdabbagh@ksu.edu.sa)

### Hesham AlKhashan, MD

Assistant Deputy Minister for Primary Health Care at the Ministry of Health, Saudi Arabia

[hesham.alkhashan@smgc.sa](mailto:hesham.alkhashan@smgc.sa)