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University of Louisville  
Department of Health Management and Systems Sciences  
School of Public Health and Information Sciences  
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## **EDUCATION**

**University of Louisville** Louisville, Kentucky  
Doctor of Philosophy August 2021 – May 2026  
Public Health Sciences, specialization in Health Management and Policy  
Concentration: Health Policy Research

**Institute for Management and Planning Studies** Tehran, Iran  
Master of Science in Economics September 2016  
Concentration: Socio-Economic Systems  
Thesis: Evaluating social equity in public transportation, case of Tehran multi-modal public transit

**Shahid Chamran University of Ahvaz** Ahvaz, Iran  
Applied Mathematics February 2013

## **PROFESSIONAL EXPERIENCE**

**University of Louisville**  
**School of Public Health and Information Sciences**  
**Department of Health Management and Systems Sciences**  
Graduate Teaching Assistant August 2022 – current

**University of Louisville**  
**School of Public Health and Information Sciences**  
**Department of Health Management and Systems Sciences**  
**Commonwealth Institute of Kentucky (Medicaid Analytics Grant)**  
Graduate Research Assistant August 2021 – July 2022

**Institute for Management and Planning Studies**  
**Department of Economic Research** Tehran, Iran  
Labor Market Analyst April 2019 - October 2020

## Management and Planning Organization of Iran

Department of Economics

Socio-Economic Researcher

Tehran, Iran

April 2017 - September 2018

## Institute for Management and Planning Studies

Department of Economic Research

Graduate Research Assistant

Tehran, Iran

February 2014 - January 2015

## PUBLICATIONS

Karimi, S. M., Maziyaki, A., Moghadam, S. A., Jafarkhani, M., **Zarei, H.**, Moradi-Lakeh, M., & Pouran, H. (2020). "Continuous exposure to ambient air pollution and chronic diseases: prevalence, burden, and economic costs." *Reviews on environmental health*, 35(4), 379-399.

Mamdoohi, A. R., **Zarei, H.** (2016). "An Analysis of Public Transit Connectivity Index in Tehran (The Case Study: Tehran Multi-Modal Transit Network)" *TeMA - Journal of Land Use, Mobility and Environment*, 59-76.

## PRESENTATIONS

Maziyaki, A., Mazaheri, M., Karimi, A., Rashnavadi, L., **Zarei, H.** (2014). "Allocation of Targeted Subsidies to Increase Household Welfare: Regional Poverty Approach." *The First Conference on the Iranian Economy*, oral presentation.

## TECHNICAL REPORTS

Karimi, S. M., **Zarei, H.**, McGeeney, D., Patel, N., Gunaratnam, B., Vu, G. T., McKinney, W. P., Little, B. B., DuPre, NC., Mitra, R., Khan, S. M., Chen, Y. T., Oeth, C., Hollenbach, R., Moyer, S. "Projecting COVID-19 Hospitalizations IN Jefferson County, Kentucky, Based upon the Uptake of Vaccination in f 5-11 Year-Olds" December 7, 2021.

Karimi, S. M., **Zarei, H.**, McKinney, W.P., Little, B. B., DuPre, NC., Mitra, R., Patel, N., Chen, Y. T., Hollenbach, R., Moyer, S., Schutze, M. H., LaZur, R., "Projecting COVID-19 Hospitalizations and Deaths under Scenarios of Vaccination in Jefferson County, Kentucky." March 6, 2021.

Karimi, S. M., **Zarei, H.**, LaZur, R., DuPre, NC., McKinney, W.P., Patel, N., Little, B. B., Mitra, R., Moyer, S., Schutze, M.H. "Projecting COVID-19 Hospitalizations for Regions 2, 3, and 4 of the Kentucky Regional Hospital Preparedness Program (HPP) Coalition during the Implementation of the State's 'Targeted Measures'." November 2020.

Karimi, S. M., **Zarei, H.**, LaZur, R., DuPre, NC., McKinney, W.P., Patel, N., Little, B. B., Mitra, R., Moyer, S., Schutze, M.H. "Projecting COVID-19 Hospitalizations and Deaths for Region 3 of the Kentucky Regional Hospital Preparedness Program (HPP) Coalition (Jefferson County and 14 Surrounding Counties) during the Implementation of the State's 'Targeted Measures'." November 2020.

Karimi, S. M., **Zarei, H.**, DuPre, N. C., Salunkhe, S. S., Patel, N., Mitra, R., McKinney, W. P., Little, B. B., Moyer, S. “Projecting COVID-19 Deaths and Hospitalizations for Region 4 of the Kentucky Regional Hospital Preparedness Program (HPP) Coalition from August 18 to October 17, 2020.” August 2020.

Karimi, S. M., **Zarei, H.**, DuPre, N. C., Chen, Y. T., Patel, N., Mitra, R., McKinney, W. P., Little, B. B., Ul. Hassan, R., Moyer, S. “Projecting COVID-19 Deaths and Hospitalizations for Jefferson County, KY from July 16 to September 15, 2020.” July 2020.

## **PROFESSIONAL AFFILIATIONS**

Member, AcademyHealth

## **GRANTS**

- The Effect of Market Changes on Kentucky Medicaid, Utilization and Cost-Savings for Three Chronic Diseases—Cardiovascular Diseases, Cancer, and Type 2 Diabetes

Kentucky Cabinet for Health and Family Services

08/2021 to 07/2022

PI: Seyed Karimi, PhD

Role: Graduate Research Assistant

- Analyzing COVID-19 and Projecting COVID-19 Hospitalizations and Deaths for City of Louisville/Jefferson County, Kentucky

Louisville Metro Department of Public Health and Wellness

10/2021 to 12/2021

PI: Seyed Karimi, PhD

Role: Graduate Research Assistant

## **SKILLS**

- Empirical knowledge of Econometrics, Statistical Methods, and Computer Programming for Big Data Analysis, Software including:
  - Microsoft SQL Server; big data analysis with queries
  - RStudio; data management and epidemic predictive modeling
  - Stata; statistical data management and health research methods
  - SAS; statistical data management and health research methods
  - Python; applications of machine learning and deep learning in health data analysis
  - SPSS; statistical analysis in population health
  - Knime; making processes and programs to build the best algorithm.
- Advanced skills in mapping and spatial statistics in health and geography using:
  - ArcGIS Desktop
  - ArcGIS Pro
  - GeoDa