



**Office of Management and Budget Division of Purchasing**  
**Non-Competitive Contract Request Form**

Department	Public Health and Wellness	Department Contact	Angela Graham
Contact Email	angela.graham@louisvilleky.gov	Contact Phone	502 574 8270

Contract Type: check one	New	Amendment		
		Additional Funds	Time Extension	Scope
Professional Service	X			
Sole Source (Goods/Services)				
	Start	End		
Requested Contract Dates (MM/DD/YYYY)	08/01/2023	07/31/2024		

**VENDOR INFORMATION**

Vendor Legal Name	University of Louisville on behalf of its School of Public Health and Information Sciences						
DBA							
Point of Contact	Tina Hembree				Email	tina.hembree@louisville.edu	
Street	485 E Gray St						
Suite/Floor/Apt	233C				Phone	502-852-7881	
City	Louisville				State	KY	Zip Code 40202
Federal Tax ID#			SSN# (If sole proprietor)				
Louisville Revenue Commission Account #							
<u>Human Relations Commission Certified Vendors</u>		Certified Minority Owned Business	Certified Woman Owned Business		Disabled Owned Business		
Select if applicable							

**FINANCIAL INFORMATION**

Not to Exceed Contract Amount	88,800.00 dla		(Including reimbursement expenses, if applicable)		
Spend Category:					
Fund:	General Fund	Cost Center:	605 Center for Healthy Equity Programs		
Program:	Center for Health Equity		Project:		
Grant:			Other Worktags:		
Payment Rate		per hour		per day	Other - describe below
	7,400	per month		per service	
Payment Frequency	x	Monthly		Upon Completion / Delivery	
		Quarterly		Other	



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**CONTRACT SCOPE and PURPOSE** (Attach additional documentation if necessary)

**New:** Be specific about the work to be performed / product to be purchased including but not limited to scope of work; description of service; work product created; why the service / product is necessary; and benefit to Louisville Metro Government.

**Amendments:** Describe the circumstances under which a time extension or scope change is needed.

Louisville Metro Government (LMG) desires to employ Dr Seyed Karimi as the health economist for the Louisville Metro Department of Public Health and Wellness (LMPHW) in partnership with the University of Louisville School of Public Health and Information Sciences.

The health economist's responsibilities include: Evaluate economic impact of current policies and proposed policy implementation on the public health system and economy; communicate economic assessment results to appropriate internal and external audiences; perform economic analysis and model plans for public health programs; contribute to LMPHW Center for Health Equity activities including health impact assessment projects, budget analysis, health equity report development, and provide economic framing to other public health community plans; supervise graduate research assistants working to directly support research and evaluation work at LMPHW.

In addition the health economist will also be accompanied by a Graduate Research Assistant (GRA). The GRA is a student enrolled in a PhD program at the U of L School of Public Health, and will provide direct support for data cleaning/management and analysis, research activities related to evaluation, support for developing data visualizations or reports, and other related functions. The health economist will oversee the work of the GRA directly, with additional oversight and support provided by the Executive Administrator for Research and Academic Partnerships at LMPHW.

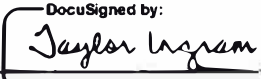
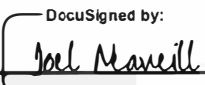
**JUSTIFICATION FOR NON-COMPETITIVE GOOD/SERVICE** (Attach additional documentation if necessary)

Provide justification including but not limited to a description of the unique features that prohibit competition; research conducted to verify the vendor as the only known source (sole source); why the service (PSC) is not feasible to be provided by LMG staff or expertise does not exist; known compatibility, proprietary and/or timing issues.

U of L is the sole source provider for the LMPHW health economist. The health economist also serves as a faculty member of U of L. Because of the many years of partnership with LMPHW and because of the joint working arrangement for services of the health economist, U of L is uniquely qualified to provide a health economist to LMG.

LMPHW will pay 25% of both salary (\$31,620.00) and fringe (\$9,210.00) for a total contract amount of \$43,054 for the health economist. Additionally, LMPHW will pay for the full cost of one (1) GRA at the cost of \$47,970 annually. U of L will invoice \$7,400.00 per month for 12 months.

**AUTHORIZATIONS:** Per KRS 45A.380, I have determined that competition is not feasible for the above described good / service and there is a single source within a reasonable geographical area of the good / service to be procured; or the resulting contract is for the services of a licensed professional, technician, artist, or other non-licensed professional service.

Department Director	DocuSigned by:  Signature ID: A12A9DC5254BF... Taylor Ingram Printed Name	Date <u>6/22/2023</u>
Purchasing Director	DocuSigned by:  Signature ID: B46603F83A42D... Joel Neaveill	Date <u>6/29/2023</u>

DocuSigned by:



SEYED M. KARIMI

May 2023

## CURRICULUM VITAE SEYED M. KARIMI

### CONTACT INFORMATION

Department of Health Management and Systems Sciences  
School of Public Health and Information Sciences (SPHIS)  
University of Louisville  
Room 115, 485 E. Gray St., Louisville, KY 40202, USA

Email: [seyed.karimi@louisville.edu](mailto:seyed.karimi@louisville.edu)

Office: 502 852 0417

Page: [http://louisville.edu/sphis/directory/seyed\\_m\\_karimi\\_phd](http://louisville.edu/sphis/directory/seyed_m_karimi_phd)

Center for Health Equity

Louisville Metro Department of Public Health and Wellness  
(LMPHW)

480 E. Gray St., Louisville, KY 40202, USA

Email: [seyed.karimi@louisville.edu](mailto:seyed.karimi@louisville.edu)Page: [https://louisvilleky.gov/government/health\\_wellness/dr\\_seyed\\_karimi](https://louisvilleky.gov/government/health_wellness/dr_seyed_karimi)

### CONTACT INFORMATION

Seyed M. Karimi's work sits at the intersection of microeconomics, statistics, and health policy. Understanding and analyzing the root causes of health inequalities, health policy evaluation, modeling health care finance, environmental health, modeling infectious disease transmission, and burden of disease estimation are the areas of his research. He has taught courses on health services research methodology, data management, economic evaluation in health care, health economics and policy, labor economics and policy, and introductory and intermediate microeconomics and macroeconomics. He is currently an associate professor of health economics at the Department of Health Management and Systems Sciences at the University of Louisville's School of Public Health and Information Sciences (SPHIS). He also holds the health economist position at the Center for Health Equity (CHE) at the Louisville Metro Department of Public Health and Wellness (LMPHW), where he assists departmental leadership in defining policy priorities and programs. From March 2020 to December 2022, he led a team of multidisciplinary researchers to project COVID 19 trends in the City of Louisville and the State of Kentucky regions (Webpage: [http://louisville.edu/sphis/research/covid\\_19\\_projections](http://louisville.edu/sphis/research/covid_19_projections)). In addition, he collaborates with the University of Washington's Institute for Health Metrics and Evaluations (IHME) in the Global Burden of Disease project. In July 2022, he was appointed as the director of the Commonwealth Institute of Kentucky (CIK).

### EDUCATION

**University of Illinois at Urbana-Champaign**

Ph.D. in Economics (2014)

**Institute for Research in Planning and Development, Tehran, Iran**

M.S. in Industrial Engineering (2002)

**Polytechnic of Tehran, Tehran, Iran**

B.S. in Electrical Engineering (2000)

### PROFESSIONAL EXPERIENCE AND EMPLOYMENT

**University of Louisville**

School of Public Health and Information Sciences  
Department of Health Management and Systems  
Sciences

Associate Professor

Jul. 2022 present

**University of Louisville**

School of Public Health and Information Sciences  
Commonwealth Institute of Kentucky (CIK)

Director

Jul. 2022 present

**Louisville Metro Dep. of Public Health & Wellness**

Center for Health Equity (CHE)

Health Economist

Aug. 2019 present

**Institute for Health Metrics and Evaluations**

University of Washington, Seattle

Collaborator

Jan. 2016 present

**University of Louisville**

School of Public Health and Information Sciences

Assistant Professor

Aug. 2019 Jun. 2022

SEYED M. KARIMI

Department of Health Management and Systems  
Sciences

**University of Washington, Tacoma**  
School of Interdisciplinary Arts and Sciences  
Department of Politics, Philosophy, and Public Affairs

Full Time Lecturer

Sep. 2014–Jul. 2019

**University of Illinois at Urbana-Champaign**  
Department of Economics

Teaching Assistant

Aug. 2007–May 2014

Research Assistant

**Central Bank of Iran**  
Iran Banking Institute (IBI)

Full Time Lecturer

Sep. 2004–Aug. 2007

**Institute for Research in Planning and  
Development**  
Department of Economics

Research Fellow

Sep. 2002–Aug. 2004

## PROFESSIONAL ASSOCIATIONS

American Economic Association (AEA)

American Society of Health Economists (ASHEcon)

GBD Network of Collaborators, Institute for Health Metrics and Evaluations (IHME)

National Association of County and City Health Officials (NACCHO)

Commonwealth Institute of Kentucky (CIK)

International Iranian Economic Association (IIEA)

## AWARDS

Student Champion (2022)

Certificate of Recognition for Devotion to Student Success,  
University of Louisville ([link](#))

Editor's Choice Article (2021)

American Journal of Human Biology ([link](#))

COVID Commendation (2020)

Recognized by the Louisville Metro Department of Public Health  
& Wellness for Service During the Covid 19 Pandemic and  
Exemplifying the Department's Values

Finalist of Outstanding Paper (2017)

Economic Research Forum 23<sup>rd</sup> Annual Conference, Amman,  
Jordan

Research Development Fund (2016)

University of Washington Tacoma  
School of Interdisciplinary Arts and Sciences

Summer Research Award (2012, 2013)

University of Illinois at Urbana Champaign  
Department of Economics

Outstanding Academic Performance (2002)

Institute for Research in Planning and Development  
Department of Economics

## TEACHING AND MENTORING ACTIVITIES

### Teaching

*University of Louisville*

Health Services Research Methods I (Ph.D.)

Spring 2023

Spring 2022 (Co Instructor)

Spring 2021

Spring 2020 (Co Instructor)

Health Services Research Methods II (Ph.D.)

Fall 2022

Fall 2021

Fall 2020

Fall 2019 (Co Instructor)

## SEYED M. KARIMI

Statistical Data Management in SAS and Stata (Ph.D.)	Spring 2023 (Co Instructor) Fall 2022 (Co Instructor) Fall 2021 (Co Instructor) Fall 2020 (Co Instructor)	Spring 2022 (Co Instructor) Spring 2021 (Co Instructor)	
Economic Evaluation in Health Care (Ph.D.)	Spring 2023 Spring 2021 (Co Instructor)		
Ph.D. Qualification Exam, Health Services Research Methods	Summer 2023 (Primary Instructor) Summer 2022 (Primary Instructor) Summer 2021 (Primary Instructor) Summer 2020 (Secondary Instructor)		
Ph.D. Qualification Exam, Microeconomic Theory	Summer 2023 (Secondary Instructor) Summer 2022 (Secondary Instructor) Summer 2021 (Secondary Instructor)		
<i>University of Washington Tacoma</i>			
Health Economics and Health Policy (B.A.)	Autumn 2018 Autumn 2017 Autumn 2016 Spring 2015	Spring 2018 Spring 2017 Winter 2016 Winter 2015	
Labor Economics and Policy (B.A.)	Winter 2019 Winter 2018 Winter 2017 Spring 2016 Spring 2015 Autumn 2014	Autumn 2015	
Introduction to Macroeconomics (B.A.)	Spring 2019 Autumn 2018 Autumn 2017 Autumn 2016 Autumn 2015 Autumn 2014	Winter 2019 Spring 2018 Spring 2017 Summer 2016 Summer 2015	Winter 2018 Winter 2017 Spring 2016 Winter 2016 Spring 2015 Winter 2015
<i>University of Illinois and Urbana-Champaign (Teaching Assistant / Head Teaching Assistant)</i>			
General Macroeconomic Theory (M.S.)	Spring 2014 Fall 2012	Fall 2013 Spring 2012	Spring 2013 Fall 2011
Principles of Macroeconomics (B.S.)	Spring 2011 Fall 2009	Fall 2010 Spring 2009	Spring 2010
Principles of Microeconomics (B.S.)	Fall 2008		
<i>Iran Banking Institute (IBI), Central Bank of Iran</i>			
Economic Evaluation of Projects (B.A.)	Spring 2007 Fall 2005	Fall 2006 Spring 2005	Spring 2006 Fall 2004
Principles of Microeconomics (B.A.)	Spring 2007 Fall 2005	Fall 2006 Spring 2005	Spring 2006 Fall 2004
<i>Institute of International Studies on Energy (IIES), Iran</i>			
One Week Workshops on Economic Evaluation of Projects	Jun. 2005 Dec. 2003	Apr. 2005	Aug. 2004

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**Advising**

<u>Name</u>	<u>Period</u>	<u>Program</u>	<u>Served as</u>
Naiya Patel	2021 present	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Chair
Daniya Sabra	2023 present	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Chair
Haritha Pallam	2022 present	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Co Chair
Fatima Aldarweesh	2020 present	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Andrei Smolenkov	2021 present	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Carmen Mitchell	2021 present	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Shaminul Shakib	2022 present	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Emmanuel Ezekekewu	2021 2023	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Sahal Alzahrani	2021 2022	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Sara Choate	2020 2022	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Kelsey White	2019 2021	University of Louisville Department of Health Management and Systems Sciences	PhD Committee Member
Mehran Asadi	2019 2021	Iran University of Medical Sciences Department of Epidemiology	PhD Committee Member
Sepideh Zende Budi	2020 2021	Allameh Tabatabai University Department of Economics	MS Committee Member
Reza Khatibi	2016 2020	Iran University of Medical Sciences Department of Epidemiology	PhD Committee Member
Mohammad Sarabian	2019 2020	Sharif University of Technology Department of Economics	MS Committee Member

**Mentoring**

<u>Name</u>	<u>Period</u>	<u>Program</u>	<u>Served as</u>
Sirajum Munira Khan	2021 present	University of Louisville School of Public Health and Information Sciences, PhD Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness

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Abimbola Amoo	Summer 2023	University of Louisville School of Public Health and Information Sciences, PhD Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness
J. Daniel McGeeney	2021 2022	University of Louisville School of Public Health and Information Sciences, MPH Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness
Adegboyega Akenroye	2020 2021	University of Louisville School of Public Health and Information Sciences MPH Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness
Lamyaa Alharbi	2020 2021	University of Louisville School of Public Health and Information Sciences MPH Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness
Mariyam Alluhibi	2020 2021	University of Louisville School of Public Health and Information Sciences MPH Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness
Shorog Alshamrani	2020 2021	University of Louisville School of Public Health and Information Sciences MPH Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness
Nawal Yaqoub	2020 2021	University of Louisville School of Public Health and Information Sciences MPH Program	Site Mentor at the Louisville Metro Department of Public Health and Wellness

**RESEARCH ACTIVITIES****Grants and Contracts Funded**

<u>Title</u>	<u>Role</u>	<u>Sponsor</u>	<u>Dates</u>	<u>Total</u>
Evaluating the Economic Impact of Current Policies and Proposed Policy Implementation of the Public Health System and Economy; Modeling Plans and Economic Framing of Public Health Programs; Contributing to LMPHW Root Cause Team Activities, Skillset Lab Activities, Health Impact Assessment Projects, Budget Analysis, Health Equity Report Development	Principal Investigator (50% FTE)	(Peer Reviewed Competitive) Louisville/Jefferson County Metro Government	07/2019 06/2024	\$250,000
COVID 19 Vaccination Inequality in the City of Louisville/Jefferson County, Kentucky: Analyzing Trends and Evaluating Interventions	Principal Investigator (1% FTE)	Federally Funded (Source: CDC's National Initiative to Address COVID 19 Health Disparities) through City of Louisville, Metro Department of Public Health & Wellness	07/2022 06/2023	\$149,335
Local Initiatives to Address COVID 19 Health Disparities among Populations at High Risk and Underserved, Including Racial and Ethnic Minority Populations	Principal Investigator (1% FTE)	Federally Funded (Source: CDC's National Initiative to Address COVID 19 Health Disparities) through City of Louisville, Metro	07/2021 06/2023	\$80,000

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Department of Public  
Health & Wellness**Grants and Contracts Previously Funded**

<u>Title</u>	<u>Role</u>	<u>Sponsor</u>	<u>Dates</u>	<u>Total</u>
The Effect of Market Changes in KY Medicaid: Utilization and Cost Savings for Three Chronic Diseases Cardiovascular Disease, Cancer, And Type 2 Diabetes	Principal Investigator (35% FTE)	Peer Reviewed Federally Funded Competitive through the State of Kentucky's Cabinet for Health and Family Services	07/2020 06/2022	\$578,992
Study on Systemic Complications of Oral Diseases among Medicaid Beneficiaries with Type 2 Diabetes in Kentucky (PI: Giang Vu; Approximately 5% Expenditure in Time)	Co Investigator (0% FTE Cost Share)	Peer Reviewed Federally Funded Competitive through the State of Kentucky's Cabinet for Health and Family Services	07/2020 06/2022	\$456,698
Predictive Analytics for Type 2 Diabetes with Social Determinants of Health in Medicaid Beneficiaries (PI: Bert Little; Approximately 10% Expenditure in Time)	Co Investigator (0% FTE Cost Share)	Peer Reviewed Federally Funded Competitive through the State of Kentucky's Cabinet for Health and Family Services	07/2020 06/2022	\$860,382
Louisville Metro Alternative Responder Pilot Evaluation (PI: Brian Schaefer)	Co Investigator (15% FTE)	Louisville/Jefferson County Metro Government	01/2022 06/2022	\$311,467
Analyzing COVID 19 and Projecting COVID 19 Hospitalizations and Deaths for City of Louisville/Jefferson County, Kentucky	Principal Investigator (1% FTE)	Federally Funded (Source: American Rescue Fund) through City of Louisville, Metro Department of Public Health & Wellness	10/2021 12/2021	\$54,859
Surveys of Mask Use in Jefferson County, Kentucky	Principal Investigator (1% FTE)	Federally Funded (Source: CARES Act) through City of Louisville, Metro Department of Public Health & Wellness	11/2020 02/2021	\$28,000
Louisville Metro Emergency Services Deflection Planning (PI: Susan Buchino)	Co Investigator (10% FTE)	Louisville/Jefferson County Metro Government	02/2021 06/2021	\$231,056

**Grants and Contracts Previously Submitted, Not Funded**

<u>Title</u>	<u>Role</u>	<u>Sponsor</u>	<u>Dates</u>	<u>Total</u>
Personalized Medicine Algorithms and Patient Navigators for Medicaid/Medicare Beneficiaries with Type 2 Diabetes (PI: Bert Little, KB Kulasekera, Bob Esterhay)	Co Investigator (10% FTE)	Agency for Health Research and Quality	April 2019	--
Birth Outcome Inequalities in the 21st Century in Louisville/Jefferson County, Kentucky: Analyzing the Role of	Principal Investigator (25% FTE)	Humana Foundation	March 2022	\$197,989



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Socioeconomic and Environmental  
FactorsAssessing the Unequal Impact of Novel  
Coronavirus Disease 19 (COVID 19)  
Infection on Crude Death Rate of General  
Population in Louisville Metro Area  
(PI: Jaimin Trivedi)Co  
Investigator  
(8% FTE)

Humana Foundation

March  
2022

\$33,600

**SERVICE ACTIVITIES****University of Louisville**

PhD Admission Committee	Jan. 2022	present
Department of Health Management and Systems Sciences		
PhD Curriculum Committee	Jul. 2022	present
Department of Health Management and Systems Sciences		
Faculty Search Committee	Jul. 2022	Mar. 2023
Department of Health Management and Systems Sciences		
External Review Board Member for the UofL PRePARE Grant Program Research Office	Jul. 2021	Jun. 2022
Commonwealth Institute of Kentucky Annual Report	Spring	2022
Projecting COVID 19 Hospitalizations and Deaths for Regions of the Kentucky Regional Hospital Preparedness Program (HPP) Coalition	Jun. 2020	Jul. 2021
UofL IBM Leadership & Implementation Team	Nov. 2019	Aug. 2021
UofL Humana Initiative	Jan. 2020	Jun. 2020
UofL Passport Healthy Connections Lab	Dec. 2019	Jun. 2020

**University of Washington Tacoma**

Search Committee, Assistant Professor in Statistics	Sep. 2018	April 2019
Editor of the <i>253 Economics</i> , a blog for UW Tacoma students' comments on contemporary economics issues. <a href="https://blogs.uw.edu/econ253/">https://blogs.uw.edu/econ253/</a>	Oct. 2017	June 2018
Debater, <i>State Minimum Wage: Ballot I 1433</i> , League of Women Voters Tacoma/Pierce County <a href="https://www.youtube.com/watch?v=mHnhVxjQ_1A">https://www.youtube.com/watch?v=mHnhVxjQ_1A</a>	Oct. 12,	2016
Curriculum Committee, Proposal for a BA degree in Economic Policy	2015 –	2018
Curriculum Committee of the Economics track of the Philosophy, Politics, and Public Affairs degree	2014 –	2019
Organization Group, Quantitative Refresher Workshop	2015 –	2019
Organization Group, Microeconomics Refresher Workshop	2015 –	2019
Search Committee, Lecturer in Gender Political Economy	2015 –	2016
Search Committee, Assistant Professor in Urban Economics	2014 –	2015

**Editorial Activities**

GUEST EDITOR, Atmosphere Special Issue “Human Health, Climate Change, and Ambient Air Pollution” <a href="https://www.mdpi.com/journal/atmosphere/special_issues/Pollution_Climate_Health">https://www.mdpi.com/journal/atmosphere/special_issues/Pollution_Climate_Health</a>	2021
REVIEWER 2023: Social Science and Medicine	2012 – present

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- PLOS ONE  
Journal of Population Economics  
2022:  
Empirical Economics  
Frontiers of Public Health  
American Journal of Public Health  
2021:  
Journal of American Dental Association  
Value in Health  
American Journal of Public Health  
American Journal of Human Biology  
Atmosphere  
Journal of Health Care for the Poor and Underserved  
University of Louisville Journal of Respiratory Infections  
2020:  
PLOS ONE  
Journal of Occupational and Environmental Health  
Journal of Epidemiology and Public Health Reviews  
Cancer Medicine  
Behavioral Medicine  
CDC's Preventing Chronic Disease (PCD)  
International Journal of Health Policy & Management  
Quarterly Review of Economics and Finance  
2019  
International Journal of Health Policy & Management  
Quarterly Review of Economics and Finance  
Middle East Development Journal  
2012 2018  
Food and Nutrition Sciences  
Economics and Human Biology  
Energy Journal  
Middle East Development Journal  
International Journal of Business and Globalisation
- CONFERENCE SCIENTIFIC COMMITTEE  
5<sup>th</sup> IIEA Conference on Iranian Economy, International Institute of Social History, Amsterdam, The Netherlands 2018
- CONFERENCE ORGANIZATION COMMITTEE  
Conference on Iranian Economy, Department of Economics, University of Chicago 2009  
Conference on Iranian Economy, Department of Economics University of Illinois at Urbana Champaign 2007
- CONFERENCE SCIENTIFIC EDITOR  
Iran Banking Institute 17<sup>th</sup> Annual Economic Conference 2007  
Iran Banking Institute 16<sup>th</sup> Annual Economic Conference 2006  
Iran Banking Institute 15<sup>th</sup> Annual Economic Conference 2005

## PUBLICATIONS

### Peer-Reviewed Journals

*Applied Economics & Health Sciences*

1. Asadi Aliabadi M, **Karimi SM**, Mirbaha Hashemi F, et al. "Motivating Non Physician Health Workers to Reduce the Behavioral Risk Factors of Non Communicable Diseases in the Community: A Feld Trial Study." *BMC: Archives of Public Health*. 2023;81(1). doi:10.1186/s13690 023 01047 w

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2. **Karimi SM**, Mostafavi Dehzoeei M, Asadi G, Jacobs C, Majbouri M. “Early Life Exposure to Saharan Dust Storms and Adolescence Functional Disability: Evidence from Cameroon.” *Science of the Total Environment*. 2023;858. doi:10.1016/j.scitotenv.2022.160007
3. Pouran HM, **Karimi SM**, Padilha Campos Lopes M, Sheng Y. “What China’s Environmental Policy Means for PV Solar, Electric Vehicles, and Carbon Capture and Storage Technologies.” *Energies*. 2022; 15(23):9037. DOI: 10.3390/en15239037
4. Asadi Aliabadi M, **Karimi SM**, Tehrani Banihashemi A, Mirbaha Hashemi F, Janani L, Babaee E, Nojomi M, Moradi Lakeh M. “Effectiveness of Pay for Performance to Non Physician Health Care Providers: A Systematic Review.” *Health Policy*. 2022 DOI: 10.1016/j.healthpol.2022.03.007.
5. White K, Jennings JC, **Karimi SM**, Johnson CE, Fitchett G. “Examining Factors Associated with Utilization of Chaplains in the Acute Care Setting.” *Journal of Religion and Health*. Available online from 19 November 2021. DOI: 10.1007/s10943 021 01460 x.
6. **Karimi SM**, Eslami K, Johnson CE. “U.S. Health Care Expenditure Across Income Groups by Age and Type of Care.” *Journal of Health Care for the Poor and Underserved*. 2021; 32(2): 958–970. *Project MUSE* muse.jhu.edu/article/794617.
7. Asadi Aliabadi M, Tehrani Banihashemi A, Mirbaha Hashemi F, Janani L, Babaee E, **Karimi SM**, Nojomi M, Moradi Lakeh M. “Evaluating the Impact of a Non Physician Health Care Provider Results Based Motivating System on Population Level of the Non Communicable Diseases Risk Factors in Iran: Study Protocol for a Field Trial.” *Medical Journal of the IR Iran*. 2021; 35(1): 515–522. DOI: 10.47176/mjiri.35.66.
8. Khatibi R, **Karimi SM**, Moradi Lakeh M. “Fossil Energy Price and Outdoor Air Pollution: Predictions from a QUAIDS Model.” *Biofuel Research Journal*. 2020;7(3): 1205–1216.
9. **Karimi SM**, Little B, Mokhtari M. “Short term Fetal Nutritional Stress and Long term Health: Child Height.” *American Journal of Human Biology*. Available online 06 November 2020.
10. **Karimi SM**, Taghvatalab G. “Access to Higher Education and the Likelihood of Being Married.” *Quarterly Review of Economics and Finance*. Available online 18 May 2020.
11. **Karimi SM**, Pouran H, Majbouri M, Moradi Lakeh M, Hakimian H, Basart S, “Saharan Sand and Dust Storms and Neonatal Mortality: Evidence from Burkina Faso.” *Science of the Total Environment*. 2020;729(August): 139053. Available online 29 April 2020.
12. **Karimi SM**, Maziyaqi A, Ahmadian Moghadam S, Jafarkhani M, Zarei H, Moradi Lakeh M, Pouran H. “Continuous Exposure to Ambient Air Pollution and Chronic Diseases: Prevalence, Burden, and Economic Costs.” *Reviews on Environmental Health*. Available online 22 April 2020.
13. **Karimi SM**, Basu A. “The Effect of Prenatal Exposure to Ramadan on Children’s Height.” *Economics and Human Biology*. 2018; 30(September): 69 83.
14. Abbasi H, **Karimi SM**. “Child Gender and Men’s Labor Market Outcomes: the Case of a Dotal Society.” *Review of Middle East Economics and Finance*. 2017; 13(1): 1–19.
15. Gahvari F, **Karimi SM**. “Export Constraint and Domestic Fiscal Reform: Lessons from 2010 Subsidy Reform Iran.” *Quarterly Review of Economics and Finance*. 2016; 60(May): 40–57.

## COVID 19

16. **Karimi SM**, Salunkhe SS, White KB, Little BB, McKinney WP, Mitra R, Chen YT, Adkins ER, Barclay JA, Ezekekwa E, He CX, Hurst DM, Popescu MM, Swinney DN, Johnson DA, Hollenbach R, Moyer SS, DuPré NC. “Prevalence of Unmasked and Improperly Masked Behavior in Indoor Public Areas during the COVID 19 Pandemic: Analysis of a Stratified Random Sample from Louisville, Kentucky.” *PLOS ONE*. Available online from 28 July 2021. DOI: 10.1371/journal.pone.0248324
17. DuPre NC, **Karimi SM**, Little BB, McKinney WP, Zhang C, Blair L, Gupta A, Mitra R. “County Level Demographic, Socioeconomic, School Enrollment and Lifestyle Correlates of COVID 19 Infection and Death Trajectories during the First Wave of the Pandemic in United States Counties.” *Science of the Total Environment*. Available online from 3 May 2021. DOI: 10.1016/j.scitotenv.2021.147495
18. **Karimi SM**, Majbouri M, DuPre NC, White K, Little BB, McKinney WP. “Weather and COVID 19 Deaths during the Stay at Home Order in the U.S.” *Journal of Occupational and Environmental Medicine*. Available online from 3 February 2021. DOI: 10.1097/JOM.0000000000002160
19. **Karimi SM**, Salunkhe SS, White K, Alzahrani SA, Little BB, Chen YT, McKinney WP, DuPre NC, Mitra R, Popescu MM, Adkins ER, Barclay JA, Ezekekwa E, He CX, Hurst DM, Kothagadi AR, Shakib SH, Swinney DN, Johnson DA, Hollenbach

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22. GBD 2017 Population and Fertility Collaborators. “Population and Fertility by Age and Sex for 195 Countries and Territories, 1950–2017: a Systematic Analysis for the Global Burden of Disease Study 2017.” *The Lancet*. 2018; 392(10159): 1995–2051.
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**Technical Reports***Kentucky Medicaid*

1. **Karimi SM**, Goldsby M, Patel N, Zarei H, Vu G, Little BB, Egger EM, Shakib SH, Parh MYA. "The Effect of Market Changes on Kentucky Medicaid: Utilization and Cost Savings for Three Chronic Diseases Cancer, Diabetes, and CVD." Technical Report for the Office of Health Data and Analytics, Cabinet for Health and Family Services (CHFS), pp. 724. July 29, 2022.

*Policy Briefs*

2. Eggen MB, Goins J, Johnson CE, **Karimi SM**. "Improving the Health of Kentuckians: The Value of an All Payer Claims Database." Kentuckiana Health Collaborative (KHC) & Commonwealth Institute of Kentucky (CIK), May 2023.
3. Schaefer B, Creel LM, Choate S, Yewell K, **Karimi SM**, Eggen MB, Howard T. "Early Learnings from Louisville Metro's Crisis Call Diversion Program." Commonwealth Institute of Kentucky (CIK), March 2023.
4. Davis DW, Feygin Y, Kahir J, Lohr WD, Creel LM, Eggen MB, **Karimi SM**. "Use of Medication to Treat Attention Deficit Disorders in Kentucky Preschoolers." Commonwealth Institute of Kentucky (CIK), February 2023.
5. Creel LM, Wattles BA, Smith MJ, Eggen MB, **Karimi SM**. "Policy Options to Improve Outpatient Antibiotic Prescribing in the Pediatric Medicaid Population in Kentucky." Commonwealth Institute of Kentucky (CIK), January 2023.
6. **Karimi SM**, Goldsby M, Little BB, Vu G, Patel N, Zarei H, Eggen MB. "The Impact of Medicaid Managed Care on Non-Office Based Service Utilization Among Kentucky Medicaid Beneficiaries with Chronic Disease." Commonwealth Institute of Kentucky (CIK), November 2022.
7. **Karimi SM**, Goldsby M, Little BB, Vu G, Patel N, Zarei H, Eggen MB. "Medicaid Managed Care and the Utilization of Office Based Services Among Kentucky Medicaid Beneficiaries with Chronic Disease." Commonwealth Institute of Kentucky (CIK), November 2022.
8. Kong M, Kulasekera KB, McClain CJ, Mitra R, Pal S, Huang H, Hu H, Han Y, Eggen MB, **Karimi SM**. "Depressive and Anxiety Disorders Among Medicaid Beneficiaries in Kentucky." Commonwealth Institute of Kentucky (CIK), October 2022.
9. Kong M, Kulasekera KB, McClain CJ, Mitra R, Pal S, Huang H, Hu H, Han Y, Eggen MB, **Karimi SM**. "An Assessment of Alcohol Use Disorder and Treatment Utilization among Medicaid Beneficiaries in Kentucky." Commonwealth Institute of Kentucky (CIK), September 2022.

*Data Briefs*

10. Patel N, White KB, **Karimi SM**. "Introducing the Commonwealth Institute of Kentucky's Area Health Resource Files (AHRF) Data." Commonwealth Institute of Kentucky (CIK), November 2022.
11. Parh MYA, Salunkhe SS, Eggen MB, Kong, M, **Karimi SM**. "Introducing the Commonwealth Institute of Kentucky's Health Claims Data." Commonwealth Institute of Kentucky (CIK), November 2022.
12. Parh MYA, Shakib SS, **Karimi SM**. "Introducing the Commonwealth Institute of Kentucky's Behavioral Risk Factor Surveillance System (BRFSS) Data." Commonwealth Institute of Kentucky (CIK), October 2022.
13. Parh MYA, White KB, **Karimi SM**. "Introducing the Commonwealth Institute of Kentucky's American Hospital Association Data (AHA) Data." Commonwealth Institute of Kentucky (CIK), October 2022.

*Modeling and Projecting COVID-19 Trends*

14. **Karimi SM**, Zarei H, McGeeney D, Patel N, Gunaratnam B, Vu G, Little BB, McKinney WP, DuPre NC, Mitra R, Khan SM, Oeth C, Chen YT, Hollenbach R, Moyer S. "Projecting COVID 19 Hospitalizations in Jefferson County, KY, Based upon the Uptake of Vaccination in 5 11 Year Olds." Technical Report for Center for Health Equity, Louisville Metro Department of Public Health and Wellness (LMPHW), pp. 62. December 7, 2021.
15. **Karimi SM**, Zarei H, Chen YT, LaZur R, McKinney WP, Little BB, DuPre NC, Mitra R, Patel N, Hollenbach R, Moyer S, Schutze MH. "Projecting COVID 19 Hospitalizations and Deaths under Scenarios of Vaccination in Jefferson County, Kentucky." Technical Report for Center for Health Equity, Louisville Metro Department of Public Health and Wellness (LMPHW), pp. 30. March 6, 2021.
16. **Karimi SM**, Zarei H, LaZur R, DuPre NC, McKinney WP, Patel N, Little BB, Mitra R, Moyer S, Schutze MH. "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'." Technical Report for the Office of Health Data and Analytics, Cabinet for Health and Family Services (CHFS), pp. 23. November 30, 2020.

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17. **Karimi SM**, Zarei H, LaZur R, DuPre NC, McKinney WP, Patel N, Little BB, Mitra R, Moyer S, Schutze MH. “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’.” Technical Report for the Office of Health Data and Analytics, Cabinet for Health and Family Services (CHFS), and for Center for Health Equity, Louisville Metro Department of Public Health and Wellness (LMPHW), pp. 22. November 24, 2020.
18. **Karimi SM**, Zarei H, DuPre NC, Salunkhe SS, Patel N, Mitra R, McKinney WP, Little BB, 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.” Technical Report for the Office of Health Data and Analytics, Cabinet for Health and Family Services (CHFS), pp. 26. August 24, 2020.
19. **Karimi SM**, Zarei H, DuPre NC, Chen YT, Patel N, Mitra R, McKinney WP, Little BB, Ul Hassan R, Moyer S. “Projecting COVID 19 Deaths and Hospitalizations for Jefferson County, KY from July 16 to September 15, 2020.” Technical Report for the Center for Health Equity, Louisville Metro Department of Public Health and Wellness (LMPHW), pp. 25. July 31, 2020.
20. **Karimi SM**, DuPre NC, McKinney WP, Little B, Patel N, Moyer S. “Projecting the COVID 19 Weekly Hospitalizations and Deaths for Jefferson County, Kentucky.” Technical Report for the Center for Health Equity, Louisville Metro Department of Public Health and Wellness (LMPHW), pp. 25. May 13, 2020.
21. **Karimi SM**, DuPre NC, McKinney WP, Little B, Patel N, Moyer S. “Projecting the COVID 19 Weekly Deaths, Infections, and Hospitalizations for Jefferson County, Kentucky.” Technical Report for the Center for Health Equity, Louisville Metro Department of Public Health and Wellness (LMPHW), pp. 22. April 20, 2020.

*Surveys of Mask Use*

22. **Karimi SM**, Salunkhe SS, White K, Shakib SH, Chen YT, McKinney WP, Little BB, DuPre NC, Mitra R, Adkins ER, Barclay JA, Ezekekwa E, Hurst DM, Kothagadi AR, Popescu MM, Swinney DN, Johnson DA, Hollenbach R, Moyer S. “Results of the Third Observational Surveys of Mask Use in Indoor Public Areas in Jefferson County, KY, January 25 – 31, 2021.” February 3, 2021.
23. **Karimi SM**, Salunkhe SS, White K, Chen YT, McKinney WP, Little BB, DuPre NC, Mitra R, Adkins ER, Barclay JA, Ezekekwa E, Hurst DM, Popescu MM, Swinney DN, Johnson DA, Hollenbach R, Moyer S. “Results of the Second Observational Surveys of Mask Use in Indoor Public Areas in Jefferson County, KY: December 14 – 20, 2020.” December 22, 2020.
24. **Karimi SM**, Salunkhe SS, White K, Alzahrani SA, Chen YT, McKinney WP, Little BB, DuPre NC, Mitra R, Adkins ER, Barclay JA, Ezekekwa E, He CX, Hurst DM, Kothagadi AR, Popescu MM, Shakib SH, Swinney DN, Johnson DA, Hollenbach R, Moyer S. “Results of the First Observational Surveys of Mask Use in Indoor Public Areas in Jefferson County, KY during November 5 – 11, 2020.” November 17, 2020.

*Other*

25. DuPré NC, **Karimi SK**, McKinney WP, Mitra R, Vu G, Shakib S, Little BB. “A Review of the Article by Guerra and Guerra (2021) titled ‘Mask mandate and use efficacy for COVID 19 containment in U.S. States’ and published by International Research Journal of Public Health (DOI: 10.28933/irjph 2021 08 1005).” September 15, 2021.

**Non-Peer-Reviewed**

1. **Karimi SM**, Salunkhe SS, White KB, Little BB, McKinney WP, Mitra R, Chen YT, Adkins ER, Barclay JA, Ezekekwa E, He CX, Hurst DM, Popescu MM, Swinney DN, Johnson DA, Hollenbach R, Moyer SS, DuPré NC. “Stratified Random Sampling Methodology for Observing Community Mask Use within Indoor Settings: Results from Louisville, Kentucky during the COVID 19 Pandemic.” February 25, 2021. DOI: <https://doi.org/10.1101/2021.02.25.432837>
2. Ali Meerza SI, **Karimi SM**, Little BB, Zurada JM, Inanc T. “Optimal Scheduling of Anticipated COVID 19 Vaccination: A Case Study of New York State.” August 24, 2020. DOI: <https://arxiv.org/abs/2008.10702>
3. **Karimi SM**, Majbouri M, DuPre NC, White K, Little BB, McKinney WP. “Spring Weather and COVID 19 Deaths in the U.S.” medRxiv June 22, 2020. DOI: 10.1101/2020.06.20.20136259
4. **Karimi SM**. “Prenatal Exposure to Ramadan and the Length of Gestation.” Working Paper 1236, *Economic Research Forum*, March 2017.
5. Esfahani H, **Karimi SM**. “Social Protection and Gender in Iran: Assessing the Differential Impact of Social Protection Activities on Female Headed versus Male Headed Households.” Working Paper 891, *Economic Research Forum*, March 2015.

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6. Esfahani H, Karimi SM. “Distributional Effects of Public Spending and Programs in Iran.” Working Paper 891, ***Economic Research Forum***, December 2014.

## PRESENTATIONS

### Peer-Reviewed

2023

“The Association of Long Working Hours and the Use of Prescription Sedatives among U.S. Workers.” ISPOR Annual Conference. Boston, MA. May 7–10.

2022

“COVID 19 Projections as Important Components of Effective Preparedness Planning.” NACCHO’s Preparedness Summit: Reimagining Preparedness in the Era of COVID 19. Atlanta, GA. Apr. 3–7.

2021

“County and Regional Projections of COVID 19 Trends in Kentucky.” 73rd Annual Kentucky Public Health Association Educational Conference. Apr. 21–22.

“Observing Mask Use in the Jefferson County, KY: Results from Stratified Random Sampling Studies.” 73rd Annual Kentucky Public Health Association Educational Conference. Apr. 21–22.

2020

“Sanctions and Household Welfare: Evidence from Iran.” Southern Economic Association Annual Conference, New Orleans, LA, Nov. 22.

“Energy Price Change and Emission of Air Pollutants: Implication from a QUAIDS Model.” Southern Economic Association Annual Conference, New Orleans, LA, Nov. 22.

“Louisville Metro Syringe Exchange Program (LMSEP): Disparities in Participation Five Years after Its Implementation.” NACCHO Annual Conference, Denver, CO, July 8.

“The Role of Computerized Documentation in Monitoring the Implementation of Public Health Programs: Evidence from the LMSEP.” NACCHO Annual Conference, Denver, CO, July 8.

“Louisville Metro Syringe Exchange Program (LMSEP): Importance of Implementation Details.” NACCHO Annual Conference, Denver, CO, July 8.

“Sociodemographic Gradients of Lead Level in Children’s Blood in Jefferson County, KY.” NACCHO Annual Conference, Denver, CO, July 8.

2019

“The Long Term Anthropometric Effect of Short Term Prenatal Nutritional Stress,” 6<sup>th</sup> IIEA Conference, University of Naples “L’Orientale”, Naples, Italy, May 16.

2018

“The Effect of Prenatal and Neonatal Exposure to the Saharan Sand and Dust Storms on Neonatal Mortality: Evidence from Burkina Faso,” 2018 Pacific North West Labor Day Workshop, University of Washington, Seattle, WA, Sep. 29.

“Access to Higher Education and Marriage: Evidence from the Expansion of Higher Education System in Iran during the 2000s,” 5<sup>th</sup> IIEA Conference, International Institute of Social History, Amsterdam, Netherlands, Mar. 9.

2017

“Introduction of a University: What Changes in the Local Economy?” The 4<sup>th</sup> Annual Politics, Philosophy, and Public Affairs Colloquium, University of Washington Tacoma, Portland, OR, April 29.

“Prenatal Exposure to Ramadan, Height, and the Length of Gestation,” ERF 23rd Annual Conference, Amman, Jordan, March 18.

2016

“Introduction of a University to a Small City: Effects on the Local Economy,” Western Economic Association International 91st Annual Conference, Portland, OR, July 2.

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2014

“Export Constraint and Domestic Fiscal Reform: Lessons from 2010 Subsidy Reform in Iran,” The 3<sup>rd</sup> IIEA Conference, Boston College, Boston, MA, October 25.

“Child Gender and Men’s Labor Market Outcomes: the Case of a Dotal Society,” The 3<sup>rd</sup> IIEA Conference, Boston College, Boston, MA, October 25.

“The Effect of Exposure to Ramadan in Utero on Children’s Height: Ramadan as a Natural Experiment,” Fourth Conference on Long Run Impacts of Early Life Events at the University of Michigan, Ann Harbor, MI, March 21

#### Non-Peer-Reviewed

2021

“Projection of COVID 19 Trends for Jefferson County and Kentucky Regions.” University of Louisville School of Public Health and Information Sciences, Community Advisory Board, Apr. 30.

“Observing Mask Use in the Jefferson County, KY: Results from Stratified Random Sampling Studies.” University of Windsor (Canada) Seminar Series, Mar. 26.

2019

“Health Capital and the Productivity of Health Spending: Evidence from the RAND Health Insurance Experiment,” College of Business, University of Louisville, Louisville, KY, Sep. 27.

“Health Capital and the Productivity of Health Spending: Evidence from the RAND Health Insurance Experiment,” Hudson School of Public Health, University of Oklahoma, Oklahoma City, OK, Jan. 30.

“Health Capital and the Productivity of Health Spending: Evidence from the RAND Health Insurance Experiment,” School of Public Health and Information Sciences, University of Louisville, Louisville, KY, Jan. 28.

“Health Capital and the Productivity of Health Spending: Evidence from the RAND Health Insurance Experiment,” School of Business, University of North Carolina Pembroke, Pembroke, NC, Jan. 22.

2018

“Prenatal and Neonatal Exposure to the Saharan Sand and Dust Storms and Neonatal Mortality: Evidence from Burkina Faso,” Autumn 2018 Labor/Development Brownbag Seminar, Department of Economics, University of Washington, Seattle, WA, Nov. 8.

“Prenatal Exposure to Sand and Dust Storms and Neonatal Mortality: Evidence from Burkina Faso,” Iran University of Medical Sciences, Tehran, Iran, Jan. 4.

“Access to Higher Education and Marriage: Evidence from the Expansion of Higher Education System in Iran during the 2000s,” Institute for Research & Planning in Higher Education, Tehran, Iran, Jan. 2

2017

“Pre Birth Exposure to Ramadan, Height, and the Length of Gestation,” The World Bank MENA Chief Economist Seminar Series, Washington, DC, June 14.

“Pre Birth Exposure to Ramadan, Height, and the Length of Gestation,” University of Washington PHEnOM Health Economics Seminar, Seattle, WA, May 11.

2016

“The Pros and Cons of Private and Single Payer Healthcare Systems: the U.S. versus Canada,” Seminars in Interdisciplinary Arts and Sciences: Activism and Social Change, University of Washington Tacoma, Tacoma, WA, November 8.

“Prenatal Exposure to Ramadan, Height, and the Length of Gestation,” Third Annual Politics, Philosophy, and Public Affairs Colloquium, University of Washington Tacoma, Port Townsend, WA, May 7.

2014

“The Effect of Exposure to Ramadan in Utero on Children’s Height: Ramadan as a Natural Experiment,” Lancaster University, Lancaster, UK, March 7.

2013

“Prenatal Exposure to Ramadan and Height and Weight Deficiency in Children,” University of Illinois and Urbana Champaign, Urbana, Illinois, November 4.



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*2010*

“Universal Health Insurance and Access to Medical Care: Evidence from 2005 Program in Iran,” University of Illinois and Urbana Champaign, Urbana, Illinois, June 15.