

JiWon R. Lee

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EDUCATION

Ph.D. Student, Department of Epidemiology (Aug 2021-)
School of Public Health, University of Pittsburgh, Pittsburgh, PA

Master of Public Health, Epidemiology
Mailman School of Public Health, Columbia University, New York, NY

Master of Science, Nutritional Science
School of Public Health, University of Michigan Ann Arbor, Ann Arbor, MI

Bachelor of Science, Food and Nutrition
Yonsei University Graduated with honors, Seoul, Korea

CERTIFICATION/LICENSURE

Adults and Pediatric First Aid, Cardiopulmonary Resuscitation & Automated External Defibrillator Certificate
Registered Dietitian – 883017
Korean Registered Dietitian - 60715

PROFESSIONAL EXPERIENCE

Center for Aging and Population Health, Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA
Graduate Student Researcher (GSR): Advisor/Mentor: Dr. Jane Cauley

- Study of Muscle, Mobility and Aging (SOMMA) Bone: Screening and scheduling eligible participants for DXA and HRpQCT measurements at the Neuromuscular Research Laboratory, managing database, and reimbursing participants
- SOMMA Knee OA: Screening eligible participants using inclusion/exclusion criteria from medical charts
- Conducting a research project “Inflammation markers and bone turnover in older men” using MrOS study data: Analysis plan submitted and approved the MrOS committee on Dec. 16.

Samsung Electronics, Korea
Epidemiologist, Samsung Health Research Institute

- Initiated and directed epidemiological research for employees’ health promotion and management for Samsung
- Demonstrated that employees’ daily calorie intakes are higher than Dietary Reference Intakes for Koreans independent of age, sex, and job, based on longitudinal data analysis
 - Recommended new calorie intake guidelines to reduce employees’ obesity incidence by diversifying dining hall menu
 - Proposed systematic data collection infrastructure for dietary information to facilitate future nutritional epidemiology studies
- Evaluated the first effectiveness study for alcohol drinking intervention program and demonstrated its effectiveness by improving participants’ liver function
 - Suggested the program’s target scope from high to medium risk group
- Managed job-related diseases and their risk factors utilizing sick leave and medical reimbursement data and proved that no significant job-related disease incidence, based on trend analysis, and the greater impact of company’s welfare policy on disease incidence rather than job-related exposure
 - Proposed health promotional program in musculoskeletal disorders for female workers in Memory department
- Launched the first Cancer Registry for employees to monitor and identify job-related cancer incidence and their risk factors, and proved that employees have no significantly greater total cancer incidence than those in public using standardized incidence ratio through multiple research
 - Identified healthy workers effect on thyroid, breast, stomach and colorectal cancer due to company’s high-quality medical checkup: ultrasound and endoscopic examination
 - Proved that job-related chemical exposure is not related to lung cancer incidence

- Standardized the first sick-leave and medical reimbursement data in 2001-2018 with the Korean ICD 10th code to improve the accuracy of research outcomes
- Developed partnerships with key thought leaders in environmental and occupational medicine
 - Initiated monthly external experts' seminar including line-tour and manufacturing educational class, improving perception of health issue on the manufacturing system from negative to neutral or even to positive, based on their feedbacks
- Monitored health concerns in fabrication workers and generated dossiers for high profile corporate cases
 - Chemical exposure and birth outcomes among semiconductor workers
 - Chemical exposure and reproductive health among semiconductor female workers
 - Acetone exposure and aplastic anemia among semiconductor female workers

Gangnam Municipality Health Center, Seoul, Korea

Manager, Health Cities Project and Alliance for Healthy Cities (AFHC) Conference

- Organized 'Gangnam Healthy Cities' project, coordinating inter-department efforts to provide health forums and telemedicine service for underprivileged communities
- Directed the Global AFHC Conference held in Brisbane, Australia
 - AFHC is an international public health network for cities initiated by the WHO in 2003
 - Managed Gangnam Mayors' meetings and prepared opening remarks
 - Awarded WHO Recognition and AFHC awards for Healthy Cities

College of Physicians & Surgeons, Columbia University, New York, NY

Project Manager/Data Analyst, Preventive Cardiology Program

- Managed 'Secondary Prevention Without Walls Intervention Trial in Women,' a randomized clinical trial
- Examined the impact of prevention education during and after hospitalization of female patients with established coronary heart disease after receiving secondary prevention guidelines
- Analyzed data and managed research database; Co-authored of colleague's manuscript

College of Physicians & Surgeons, Columbia University, New York, NY

Research Assistant, Preventive Cardiology Program

- Managed database and analyzed data using SAS as part of 'Women's Pooling Project'
- Project evaluated ethnic and gender difference in cardiovascular disease risk among eight large US cohort studies including:
 - Atherosclerosis Risk in Communities study, Charleston Heart study, Evan's county study, Framingham Heart study and the offspring study, NHANES follow-up study, Rancho Bernardo study, San Antonio Heart study, and Tecumseh study
- Wrote a manuscript and first-authored

University of Michigan, Ann Arbor, MI

Research Assistant: Preventive Cardiology

University of Michigan, Ann Arbor, MI

Registered Dietitian Intern, Approved Preprofessional Practice Program

ADDITIONAL RESEARCH ACTIVITIES

United States National Health Interview Survey (NHIS) Project

- Initiated and directed additional research work with collaborates outside jobs to identify cardiometabolic disease inequality among the US race and ethnic minorities, and to examine its potential risk factors using the NHIS and National Death Index mortality data
 - *Research 1:* Nativity and prevalence of cardiometabolic disease among U.S. Asian immigrants
 - *Research 2:* Trends in the prevalence of type 2 diabetes and its association with mortality rates in Asians vs. Whites
- Conducted survey and survival analyses and authored in the peer-review journal
- Invited the 2nd research article to the *International Diabetes Federation Diabetes Atlas* 9th Edition 2019

SELECTED PEER-REVIEWED PUBLICATIONS

JiWon R. Lee, Nisa M. Maruthur, Hsin-Chieh Yeh: Nativity and Prevalence of Cardiometabolic Diseases among U.S. Asian Immigrants *J Diabetes Complications* 2020;34:Article 107679

JiWon R. Lee, Hsin-Chieh Yeh: Trends in the Prevalence of Type 2 Diabetes and its Association with Mortality Rates in Asians vs. Whites: Results from the United States National Health Interview Survey from 2000 to 2014 *J Diabetes Complications* 2018;32:539-44

JiWon R. Lee, Hsin-Chieh Yeh Soohun Cho: Diabetes and Prediabetes in a Cohort of Korean Employees (abstract) *Diabetes* 2015;64(supplement1):A442

PRESENTATIONS

JiWon R. Lee, Hsin-Chieh Yeh Soohun Cho: Diabetes and Prediabetes in a Cohort of Korean Employees American Diabetes Association 75th Scientific Sessions, June 5-9, 2015 Boston, MA

HONORS & AWARDS

WHO Recognition for Healthy Cities - *Mobilizing support for 100% smoke-free environments in best practice*

AFHC awards for Healthy Cities

- Creative Developments in Healthy Cities in *Ubiquitous City* & - Progress of Healthy Cities in *Strong Action*

Charles E. Gibbs Award

International Rotary Club Ambassadorial Scholarships

Graduated with Honors at Yonsei University

President's Award for academic achievement, Yonsei University

PROFESSIONAL AFFILIATIONS

Pennsylvania State Dietetic Association

American Dietetic Association

Korean Dietetic Association

ACTIVITIES

Volunteer, COVID-19 Prevention Activities including employees' temperature monitoring and consulting employees' health per requests in Samsung Electronics

Volunteer, Community Charity Activities including drawing on wall & habitat humanitarian

SPECIAL SKILLS

Language: Native in Korean and Fluent in English

Computers: Stata, Statistical Analysis Software (SAS), SPSS, Access, Excel, Words, PowerPoint, Reference Manager, Endnote, Ultra Edit