

George Dewey

POSTDOCTORAL RESEARCH ASSOCIATE

MIGHTE @ Network Science Institute, Northeastern University, Boston, MA, 02115

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Research Interests

- Infectious Disease Epidemiology
- Social Network Analysis
- Big Data Techniques for Public Health

Education

University of California, Los Angeles

DOCTOR OF PHILOSOPHY, EPIDEMIOLOGY

Los Angeles, CA

2024

- Dissertation - Harnessing Network Data to Address Scientific Challenges

University of California, Los Angeles

MASTER OF PUBLIC HEALTH, EPIDEMIOLOGY

Los Angeles, CA

2017

University of Chicago

BACHELOR OF ARTS, BIOLOGICAL SCIENCES

Chicago, IL

2013

Funding and Awards

UCLA Department of Epidemiology HEALRISE Scholarship

2022

TITLE: PREDICTING INFECTIOUS DISEASE OUTBREAKS USING EARLY WARNING SIGNALS TO MITIGATE RACIAL AND ETHNIC DISPARITIES

Primary Investigator: \$20,000

UCLA Fielding School of Public Health High Impact Data Initiative

2021

TITLE: SIMULATIONS, EXPERIMENTS, AND BIG DATA ANALYTICS TO MODEL HUMAN BEHAVIOR

Co-Investigator: \$14,000

UCLA Department of Epidemiology Graduate Fellowship

2019

Los Angeles County Department of Public Health SAS Users Group Award

2019

Los Angeles County Department of Public Health SAS Users Individual Award

2018

UCLA Department of Epidemiology Dean's Leadership Grant

2015

Experience

Postdoctoral Research Associate

Boston, MA

MACHINE INTELLIGENCE GROUP FOR THE BETTERMENT OF HEALTH AND THE ENVIRONMENT

June 2024 - Present

- Develop forecasting and early warning systems for infectious disease outbreaks (focusing on the United States).

Graduate Student Researcher

Los Angeles, CA

NISHI LAB, UCLA FIELDING SCHOOL OF PUBLIC HEALTH

September 2019 - May 2024

- Apply techniques from network science, epidemiology, and behavioral science to address problems relevant to public health.
 - Online network experiments using decision times to explore the relationship between cooperative and punishment decisions.
 - Network simulations for preventive behaviors (COVID-19 non-pharmaceutical interventions, lung cancer screening).
 - Evaluating ChatGPTs role as a research assistant using citation networks.
 - 2+ peer-reviewed publications.

Research and Evaluation Intern

Los Angeles, CA

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC HEALTH, DIVISION OF CHRONIC DISEASE AND INJURY PREVENTION

June 2016 - July 2017

- Evaluate benefits of nutritional programs throughout Los Angeles County using survey and sales data.
 - 2 peer-reviewed publications.

Publications

1. Dai, J., Nishi, A., Tran, N., Yamamoto, Y., Dewey, G., Ugai, T., & Ogino, S. (2021). Revisiting social MPE: An integration of molecular pathological epidemiology and social science in the new era of precision medicine. *Expert Review of Molecular Diagnostics*, 21(9), 869–886.
2. Nishi, A., Dewey, G., Endo, A., Neman, S., Iwamoto, S. K., Ni, M. Y., Tsugawa, Y., Iosifidis, G., Smith, J. D., & Young, S. D. (2020). Network interventions for managing the COVID-19 pandemic and sustaining economy. *Proceedings of the National Academy of Sciences*, 117(48), 30285–30294.
3. Wickramasekaran, R. N., Robles, B., Dewey, G., & Kuo, T. (2018). Evaluating the potential health and revenue outcomes of a 100% healthy vending machine nutrition policy at a large agency in los angeles county, 2013-2015. *Journal of Public Health Management and Practice*, 24(3), 215–224.
4. Dewey, G., Wickramasekaran, R. N., Kuo, T., & Robles, B. (2017). Peer reviewed: Does sodium knowledge affect dietary choices and health behaviors? Results from a survey of los angeles county residents. *Preventing Chronic Disease*, 14.
5. Dewey, G., Wickramasekaran, R. N., Kuo, T., & Robles, B. (2017). Associations between sodium knowledge and health behaviors: Results from an internet panel survey in los angeles county. *APHA 2017 Annual Meeting & Expo* (Nov. 4-Nov. 8).

Technical Skills

Coding Languages	Software	Markup Languages
R, Python, SQL, Bash	Git, Linux (Ubuntu, Debian), Google Cloud Platform, Stata, SAS, MacOS/Windows	Markdown, Quarto