George **Dewey**

POSTDOCTORAL RESEARCH ASSOCIATE

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Research Interests

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

Education

University of California, Los Angeles	*Los Angeles, CA*
DOCTOR OF PHILOSOPHY, EPIDEMIOLOGY	*2024*

- Dissertation - Harnessing Network Data to Address Scientific Challenges

University of California, Los Angeles	*Los Angeles, CA*
MASTER OF PUBLIC HEALTH, EPIDEMIOLOGY	*2017*
University of Chicago	*Chicago, IL*
BACHELOR OF ARTS, BIOLOGICAL SCIENCES	*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*

- Use computational techniques and novel data sources to explore problems in digital epidemiology.
  - Develop forecasting and early warning systems for respiratory diseases in the United States.
  - Evaluate trends in human behavior and mobility during infectious disease outbreaks.

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.

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

Publications

1. Urmi, T., Pant, B., Dewey, G., Quintana Mathe, A., Lang, I., Druckman, J. N., Ognyanova, K., Baum, M., Perlis, R. H., Riedl, C., et al. (2024). Characterizing population-level changes in human behavior during the COVID-19 pandemic in the united states. *medRxiv*, 2024–2012.

2. Dewey, G., Ando, H., Ikesu, R., Brewer, T. F., Goto, R., & Nishi, A. (2024). Punishment is slower than cooperation or defection in online network games. *Scientific Reports*, *14*(1), 23024.

3. 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.

4. 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.

5. 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.

6. 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*.

Technical Skills

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