

**CURRICULUM VITAE**

December, 2023

**Kayo Fujimoto, Ph.D.**

Sally W. Vernon, Ph.D. Distinguished Professor in Social Determinants of Health  
Professor

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**EDUCATION**

2003	University of Pittsburgh, Pittsburgh, PA, USA	Ph.D. Sociology
2003	University of Pittsburgh, Pittsburgh, PA, USA	M.S. Statistics
1998	University of Chicago, Chicago, IL, USA	M.A. Social Sciences

**PROFESSIONAL EXPERIENCE**

2020–present	Full Professor, Department of Health Promotion & Behavioral Sciences (Primary), Department of Biostatistics and Data Science (Secondary), School of Public Health Adjunct Professor, School of Biomedical Informatics University of Texas Health Science Center at Houston (UTHealth), Houston, TX
2019–present	Sally W. Vernon, Ph.D. Distinguished Professorship in Social Determinants of Health, University of Texas Health Science Center at Houston (UTHealth), Houston, TX
2016–2020	Associate Professor (with tenure), Department of Health Promotion & Behavioral Sciences (Primary), Department of Biostatistics and Data Science (Secondary), School of Public Health Adjunct Associate Professor, School of Biomedical Informatics, University of Texas Health Science Center at Houston (UTHealth), Houston, TX
2012–2016	Assistant Professor (tenure track), Department of Health Promotion & Behavioral Sciences (Primary appointment), Department of Biostatistics (Secondary), School of Public Health, School of Biomedical Informatics (Adjunct), University of Texas Health Science Center at Houston (UTHealth), Houston, TX

2007–2011 Postdoctoral Training Fellow/Research Associate, Institute for Prevention Research,  
University of Southern California, Los Angeles, CA

2004–2007 Research Fellow of the Japan Society for the Promotion of Sciences, Japan

## HONORS AND AWARDS

2016 Nominated for the Excellence in Teaching Award by Department Chair, School of  
Public Health, UTHealth

2016 Nominated for the Research Mentoring Award by Department Chair, School of Public  
Health, UTHealth

2015, 2016 Nominated for ASPPH Early Career Public Health Research Award by Department  
Chair

2001–2002 Andrew Mellon Pre-doctoral Fellowship, University of Pittsburgh

## RESEARCH SUPPORT

### *Principal Investigator/Multiple PI/Subcontract-PI*

#### *I. Active*

#### **CDC/NU50CK000626**

(PI: Parrot, T., Bahl, J., Hutchins, R.)

Role: Subcontracting PI through Georgia Department of Public Health 03/23 – 01/28  
“CAPE – Center for Applied Pathogen Epidemiology”

The award is part of an investment by the CDC to build a Pathogen Genomics Center of Excellence (PGCoE), a network of centers in five states comprising a health department and academic institutions. UTHealth participates in Core 1 Translation of “Molecular Epidemiology” in partnership with the Georgia Department of Public Health, the US Virgin Island Department of Health, the Puerto Rico Department of Health, the Houston Health Department, and with five academic institutions: University of Georgia, Georgia Tech Research Institute, Emory University, Augusta University, and Georgia State University.

**NIH/R01** (PI: Kanamori, M. N.) 09/22 – 09/27

Role: Subcontracting PI through the University of Miami  
“LatiNET, a Multilevel Social Network Model to Examine and Address SARS-CoV-2 Misinformation in Low Income Latinx Communities”

This project will use a multilevel social network model to examine how SARS-CoV-2 misinformation and Conspiracy Theory (CT) messages are shared across five settings (friends, family, work, health service and influencers), impacting Latinx vaccine hesitancy.

**NIH/R01** (PI: Valente, T. W.) 08/22 – 07/25

Role: Subcontracting PI through the University of Southern California  
“Using Social Network Analysis to Understand Peer Influences on ENDS Use”

This project will examine whether adolescents are influenced by their friends to initiate and continue ENDS use, as well as whether friends influence brand and flavor choices and marijuana uptake. In addition, network selection processes will be tested which occurs when people make network changes to be consistent with their behavior.

**NIH/1U01TR004355-01** (PI: McPherson, D., Fernandez, M. E., Fujimoto, K., McGaha, P., Bauer, C., & Reininger, B.) 12/22–11/24

Role: Multiple Principal Investigator

“Addressing COVID-19 Testing Disparities in Vulnerable Populations Using a Community JITAI (Just In Time Adaptive Intervention) Approach: RADxUP Phase III”

This project proposes to develop and evaluate a community-based, multilevel, just-in-time intervention to address COVID-19 testing and social determinants of health among several racially diverse, underserved populations in Texas. The project is highly significant for its potential to enhance surveillance, address misinformation and advance the science on best practices for improving testing and mitigation practices. Total Costs: \$1,096,924/ Direct Costs: \$746,951 / Indirect Costs: \$349,973

**Supplement for the Texas D-CFAR NIH/NIAID P30AI161943** (PI: Giordano, T. P.) 09/22–03/24

Role: Supplement PI through Baylor College of Medicine

“Blockchain-based HIV Testing Management System”

This project proposes to develop and research the first blockchain-applied HIV status management platform, which enables marginalized and stigmatized individuals to digitally document and update their HIV status through a mobile phone app so that they will be able to more easily access comprehensive HIV prevention and care.

Total Costs: \$352,787

**NIH/1R01MH125727-01** (PI: Kanamori, M. N.) 12/20–11/23

Role: Subcontracting PI through University of Miami

“PrEPParados: A Multi-level Social Network Model to Increase PrEP Enrollment by Latino MSM Self-identified as Gay, Bisexual or Straight in Miami”

The study will characterize how stress risk factors (immigration, discrimination, homophobia and racism) and Latino cultural values (family cohesion, marianismo, machismo, and religiosity) influence social network structures, which in turn impact access to PrEP information, uptake and adherence by Latino men who have sex with other men (LMSM) who self-identify as bisexual/straight or gay.

Total Costs: \$81,267/ Direct Costs: \$45,510

**NIH/NIAID R01AI136056** (PI: Schneider, J.A, D’Aquila, R.T., & Benbow, N.) 02/18–1/24 (NCE)

Role: Subcontracting PI through University of Chicago

“Next-generation Phylodynamics-targeted Partner Service Models for Combined HIV Prevention”

The goal of this project is to guide and transform the rapidly evolving public health implementation of molecular HIV surveillance (MHS) based prevention interventions as a critical step towards HIV elimination.

Total Costs: \$241,622/ Direct Costs: \$156,897/ Indirect Costs: \$84,725

**NIH/NIDA U2C DA050098-01** (PI: Schneider, J. A. & Pollack, H. A.) 06/19–05/24

Role: Subcontracting PI (a Core Methodology Co-Leader for Social Network Analysis) through University of Chicago

“Methodology and Advanced Analytics Resource Center (MAARC)”

This project proposes advanced bi-directional data sharing, analytics and modeling capacities to provide new scientific insights into interventions at the intersection of opioid use and justice contexts that will ultimately lead to reductions in opioid overdose: The Methodology and Advanced Analytics Resource Center (MAARC). The MAARC will support these capabilities within opioid clinical trials implemented within justice contexts.

Total Costs: \$358,792/ Direct Costs: \$230,895 / Indirect Costs: \$127,897

### ***In-Kind***

**UTH-MDA Population Health Initiative Collaborative Project Award** (PI: Fujimoto, K. & Chiao, E.)

Role: Principal Investigator (donating 10% FTE) 10/21–09/24 (NCE)

“Identifying Social Drivers of Racial Disparities in Anal HPV Infection: Novel Targets for Anal Cancer Prevention Targets in Young Men who Have Sex with Men (MSM)”

In this project, Dr. Fujimoto (UTHealth) and Dr. Chiao (MD Anderson Cancer Center) will form a new collaboration to fuel the UTH and MDA’s commitment to population health impact in Texas. The study is expected to advance the areas of Health Equity and Social Drivers of Health (Strategy 4) and Chronic Disease Prevention and Control Research and Practice (Strategy 1) by addressing the challenges which impact the structural determinants of health and high-risk HPV (particularly HPV-16) transmission among young Black MSM in order to achieve a meaningful reduction in the burden of HPV-associated anal cancer in this population.

Total Costs: \$99,806

### ***Co-investigator***

**Supplement for the Texas D-CFAR NIH/NIAID P30AI161943** (PI: Giordano, T. P.) 09/22–08/24 (NCE)

Role: Co-Investigator

“Texas Implementation Science Hub to end HIV” (PI: Markham, C. & Balasubramanian, B.)

The overarching goal of this project is to establish the Texas Implementation Science Hub to End HIV (*aka* the Texas IS Hub) as part of the Texas Developmental Center for AIDS Research – a collaboration of three premiere institutions in Texas including: Baylor College of Medicine, University of Texas Health Science Center (UTHealth) and Texas Biomedical Research Institute.

Total Costs: \$346,826/ Direct Costs: \$222,324 / Indirect Costs: \$124,502

### ***3. Completed***

#### ***Principal Investigator/MPI/Subcontracting-PI***

**NIH/3UL1TR003167-03S3** (PI: McPherson, D., Fernandez, M. E., Fujimoto, K., McGaha, P., de Oliveira Otto, M. C., & Reininger, B.) 09/21–08/23

Role: Multiple Principal Investigator

“Addressing COVID-19 Testing Disparities in Vulnerable Populations Using a Community JITAI (Just In Time Adaptive Intervention) Approach – Phase II”

This study will leverage long-standing academic-community partnerships to examine COVID-19 infection, testing, and vaccination patterns in three Texas regions (Houston/Harris County, South Texas, and Northeast Texas) to identify underserved communities. In these communities, we will provide and evaluate a multilevel intervention to increase reach, uptake, implementation, and sustainment of SARS-CoV-2 testing and COVID-19 vaccination. We will also explore the impact and reach of people’s communication networks on attitudes, intentions, and decisions on behavior regarding SARS-CoV-2 testing and COVID-19 vaccination.

Total Costs: \$1,174,131 / Direct Costs: \$796,433 / Indirect Costs: \$377,698

**CDC/75D30121C10133** (PI: Bahl, J.)

02/21–01/23

Role: Subcontracting PI through University of Georgia, Athens

“Molecular Epidemiology and Transmission Dynamics of COVID-19 in Houston Texas”

This study aims at combining epidemiological surveillance with viral comparative genomic analysis in a statistical phylodynamic framework to understand the characteristics of SARS-CoV-2 transmission dynamics in Houston, TX.

Total Costs: \$299,920 / Direct Costs: \$192,228

**Houston Health Department** (PI: Khurshid, A.)

10/21–01/23

Role: Subcontracting PI through University of Texas at Austin

“Pilot the Feasibility of Applying Blockchain Technology”

This project will design a pilot for testing the feasibility of using blockchain technology for the highly sensitive HIV-related testing and treatment data that allows greater personal control and trust in patients for sharing this information.

Total Costs: \$45,971 / Direct Costs: \$36,485 / Indirect Costs: \$9,486

**NIH/NIAID 1R56AI150272-01A1** (PI: Tao, C., Fujimoto, K., & Schneider, J. A.) 09/20–08/22

Role: Multiple Principal Investigator

“Using Big Data and Deep Learning on Predicting HIV Transmission Risk in MSM Population”

This project aims at constructing a comprehensive framework that combines population-based molecular, behavior, and contact/partner tracing information including venue affiliation data and behaviors, as well as existing locally collected cohort data in collaboration with the health departments of Houston and Chicago. We will then develop deep-learning algorithms that leverage the comprehensive framework for cluster growth and to identify newly infected populations. Total Costs:

\$801,194/ Direct Costs: \$574,350/ Indirect Costs: \$226,844

**NIH/NIDA 1R01DA039934** (PI: Schneider, J. A., Fujimoto, K., & Harawa, N.) 07/15–04/22

Role: Multiple Principal Investigator, subcontract through University of Chicago

“HIV Intervention Models for Criminal Justice Involved Substance-using Black MSM”

(“BARS: Building Agent-based models for a Racialized-justice System”)

This project takes a systems science approach to estimate the effectiveness of HIV prevention interventions for criminal justice (i.e., jail and community supervision) involved younger Black men who have sex with men in HIV prevention services. This study is conducted in three sites (Houston, TX; Los

Angeles, CA; and Chicago, IL), with collaborations with the University of Chicago (primary institution), Argonne National Laboratory, and UCLA.

Total Costs: \$613,636 / Direct Costs: \$398,465 / Indirect Costs: \$215,171

**Supplement, 3R01DA039934** (PI: Schneider, J. A., Fujimoto, K., & Harawa, N.) 05/18–04/22

Role: Multiple Principal Investigator, subcontract through University of Chicago

“HIV Intervention Models for Criminal Justice Involved Substance-using Black MSM”

The primary goal of the proposed supplement is to examine institutional and social network contributors to opioid use (including prescription opioids, heroin, and synthetic opioids such as fentanyl), opioid use disorder, and opioid-related harms among younger Black men who have sex with men (YBMSM) with involvement in the criminal justice/corrections system.

Total Costs: \$98,349/ Direct Costs: \$63,863/ Indirect Costs: \$34,486

**NIH/NIAID 1R21AI139480** (PI: Fujimoto, K.)

06/18–05/21

Role: Principal Investigator

“Network Dynamics of Syphilis Coinfection within Biomedical Prevention”

This project takes biological, behavioral, and network perspectives to investigate complex syphilis-HIV transmission dynamic processes, coevolved with sex behavioral dynamic, and sexual network dynamic, and risk reduction behavioral dynamic among young Black men who have sex with men at the aim of creating effective syphilis eliminations interventions for most-at-risk population in the United States. Total Costs: \$438,175/ Direct Costs: \$340,252/ Indirect Costs: \$97,923

**Supplement for NIH/NIAID P30AI117943** (PI: D’Aquila, R. T.)

08/19–05/21

Role: Subcontracting PI through Northwestern University

“Next generation responses to HIV related events in ending the epidemic contexts” (PI: Schneider, J.A.)

Total Costs: \$24,839/ Direct Costs: \$16,129/ Indirect Costs: \$8,710

**NIH/NIMH 1R01MH100021** (PI: Fujimoto, K., & Schneider, J. A.)

04/13–02/19

Role: Principal Investigator

“YMAP: Young Men’s Affiliation Project of HIV Risk and Prevention Venue”

This project conducts a multisite longitudinal network study to investigate the HIV/STD risk and protective behaviors associated with social networks created by venue affiliations among young men who have sex with men (YMSM) aged 16 to 29 years. This study is conducted in two cities (Houston, TX, and Chicago, IL), with collaborations with the University of Chicago and Lurie Children’s Hospital of Chicago.

Total Costs: \$3,008,690 / Direct Costs: \$2,502,247 / Indirect Costs: \$506,443

**NIH/NIGMS 1R21GM113694** (PI: Fujimoto, K.)

07/15–06/18

Role: Principal Investigator

“iMAN: integrated Molecular & Affiliation Network Analysis of HIV transmission”

This project integrates molecular phylogenetic analysis with affiliation network analysis to examine HIV/AIDS transmission structure among younger Black men who have sex with men aged 16 to 29 years

in Houston, TX, and Chicago, IL. This project collaborates with a research team at the University of Athens, Greece, for HIV phylogenetic analysis, as well as with the University of Chicago and Lurie Children's Hospital of Chicago (Northwestern University).

Total Costs: \$442,076 / Direct Costs: \$314,397 / Indirect Costs: \$127,679

**Gilead Sciences, Inc. IN-US-276-D120** (PI: Fujimoto, K.)

05/16–10/18

Role: Principal Investigator

“Racial/Ethnic Disparity in PrEP Care Continuum: Multiplex Networks Involving Health Venues and Younger MSM”

This study proposes to identify any racial/ethnic differences in younger MSM's affiliation with both clinical and non-clinical venues in Houston and Chicago.

Total Costs: \$139,532 / Direct Costs: \$86,307 / Indirect Costs: \$53,225

**NIH/NHLBI R01HL120725** (PI: Kandula, N.)

01/14–12/17

Role: Subcontracting PI through Northwestern University

“Social and Cultural Influences on Diet and Physical Activity in South Asians”

The study takes a social network approach in order to determine network-level sociocultural drivers of diet and physical activity among U.S. South Asians.

Total Costs: \$33,222 / Direct Costs: \$21,857 / Indirect Costs: \$11,365

**NIH/DHHS 1R01CA157577-01A1** (PI: Valente, T. W.)

05/12–03/17

Role: Subcontracting PI through University of Southern California

“The Global Diffusion of Tobacco Control”

This study proposes to compile extensive network data from GLOBALink, an electronic forum for global tobacco advocacy to estimate network effects in a dynamic modeling framework. Total

Costs: \$79,345 / Direct Costs: \$52,200 / Indirect Costs: \$27,145

**NIH/NIAAA 4R00AA019699-03** (PI: Fujimoto, K.)

04/12–03/15

Role: Principal Investigator

“Comparing Social Network Influence on Alcohol Use using Affiliation Data”

This study examined the dynamics of the two-mode affiliation networks between adolescents and social contexts including school-sponsored organized sports activities in relation to adolescent alcohol use and cigarette smoking. This study applied stochastic network modeling methodologies such as exponential random graph models and stochastic actor-oriented network dynamic models to identify social mechanisms by analytically disentangling the effects of social contexts on network dynamics from the effects of social networks on social contexts.

Total Costs: \$411,473 / Direct Costs: \$270,706 / Indirect Costs: \$140,767

**NIH/NIAAA 1K99AA019699-01** (PI: Fujimoto, K.)

09/10–12/11

Role: Principal Investigator

“Comparing Social Network Influence on Alcohol Use using Affiliation Data”

This study developed a new network influence model that uses two-mode affiliation network data (actor-by-event affiliation/bipartite) by extending one-mode (actor-by-actor network) network exposure model

to measure affiliation-based social influence (adolescents affiliate with organized activities sponsored at school, or identify with crowds) and its association with adolescent alcohol use and cigarette smoking.  
Total Costs: \$170,006 / Direct Costs: \$101,935 / Indirect Costs: \$68,071

**JSPS#09348** (PI: Fujimoto, K.)

04/04–06/07

Ministry of Education, Culture, Sports, Science and Technology–Japan Role:  
Principal Investigator

“Network Structure of Contemporary Japanese Female Labor Market”

To examine structural features of entry-level Japanese female labor market by employing social network analysis and statistical methods.

Total Costs: \$103,842 (1,1648,000 yen, converted \$1 = 112.17 yen, average exchange rate)

***Co-investigator and other roles***

**NIH/NLM R01LM012974-01A1** (PI: Myneni, S.)

07/19–06/23

Role: Co-Investigator

“Pragmatics to Reveal Intention in Social Media (PRISM) for Health Promotion”

This project will investigate associations between communication and social influence dynamics underlying behavior change and chronic disease management as manifested in health-related member communication of online communities. We will integrate methods of discourse analysis, automated text analysis, and dynamic network models to analyze electronically captured peer-to-peer communication and characterize communication intent and content at scale.

Total Costs: \$1,611,685/ Direct Costs: \$1,172,098/ Indirect Costs: \$439,587

**NIH/3UL1TR003167-02S1** (PI: McPherson, D. D.)

09/20–08/22

Role: Co-Investigator

“RADx: Understanding and Addressing COVID-19 Testing Disparities in Vulnerable Populations: A Multilevel and Multi-method Approach (CCTS)”

Building on the partnerships and resources of the Center for Clinical and Translational Science (CCTS), the goal of the proposed study is to identify dynamic disease hotspots and testing deserts in racially diverse regions of the target regions, to inform the development and evaluation of multilevel level just-in-time adaptive intervention strategies to reach individuals with medical comorbidities and whose demographic category and/or living condition are known to increase risk of severe COVID-19 infection. This study will identify dynamic disease hotspots and testing deserts in racially diverse regions of South (Houston/Harris County) and Northeast Texas.

Total Costs: \$4,998,788 / Direct Costs: \$3,682,611 / Indirect Costs: \$1,316,177

**NIH/NCI R21 CA220670-01** (PI: Myneni, S.)

09/17–08/20

Role: Co-Investigator

“Characterization of the Manifestation of Stages and Processes of Smoking Behavior Change in Health-related Social Intercourse”

This project investigates the manifestation of behavior change processes and stages in online social discourse focusing smoking cessation. As a component of the proposed research we will integrate

automated text analysis and network models to understand social mechanisms and influence patterns underlying electronically captured peer-to-peer communication related to behavior modification. Total Costs: \$39,016 / Direct Costs: \$25,335.00 / Indirect Costs: \$13,681.00

**CPRIT PP160051** (PI: Fernandez, M.)

12/15–05/17

Role: Co-Investigator

“Dissemination of an Evidence-Based HPV Vaccination Intervention in Community and Clinical Settings”

The overall goal is to increase the reach, adoption, and implementation of a HPV educational program for parents, with a particular emphasis on reducing HPV-related health disparities among Hispanics. Direct Costs: \$299,781

**NIH/NLM 1R21LM012271-01** (PI: Myneni, S.)

09/15–08/18

Role: Co-Investigator

“Content-based Social Network Analysis Methods for Data-driven Health Promotion”

This project integrates qualitative analysis, automated text analysis, and social network models to understand social influence patterns embedded in peer-to-peer communication exchanges on digital communication platforms, aiming at the development of data-driven socio-behavioral interventions. Total Costs: \$48,767 / Direct Costs: \$31,667.00 / Indirect Costs: \$17,100.00

**NIH/NIAAA 1RC1AA019239-01** (PI: Valente, T. W.)

09/09–08/11

Role: Postdoctoral Fellow

“Social Networks and Networking that put Adolescents at High Risk”

To investigate how social network data may be used to identify adolescents at risk for negative health behaviors such as smoking, alcohol use, or drug use by comparing several aspects of survey data collection. Total Costs: \$714,008 / Direct Costs: \$439,670 / Indirect Costs: \$274,338

**NIH/NIMH 1R01MH089474-01** (PI: Solomon, O.)

09/09–08/11

Role: Consultant (Social Network Analysis)

“Autism in Urban Context: Linking Heterogeneity with Health and Service Disparities”

To examine health and service disparities in autism spectrum disorder (ASD) diagnoses among African American children living in Los Angeles.

Total Costs: \$1,248,025

**NIH/NCI 5T32 CA009492-23-25** (PI: Pentz, M. A.)

08/07–07/10

Role: Postdoctoral Fellow (11/07–08/10)

Cancer Control and Epidemiology Research Training Grant

Training of postdoctoral fellows in cancer prevention and control.

## PUBLICATIONS

†share the lead authorship; \*indicates student/postdoc authorship

**Peer-Reviewed Journals**

1. **Fujimoto, K.**, \*Kuo, J., \*Scott, G., Lewis, R., \*Chan, H. K., \*Lyu, L., \*Veytsel, G., Carr, M., Broussard, T., Short, K., Sealy, R., Brown, P., Brown, A., & Bahl, J. (2023). Beyond scale-free networks: Integrating multilayer social networks with molecular clusters in the local spread of COVID-19. (2023). *Scientific Reports*. <https://doi.org/10.1038/s41598-023-49109-x>.
2. Hotton, A.L., Lee, F., Sheeler, D., Ozik, J., Collier, N., Edali, M., Ardestani, B.M., Brewer, R., Schrode, K.M., **Fujimoto, K.** and Harawa, N.T., (2023). Impact of post-incarceration care engagement interventions on HIV transmission among young Black men who have sex with men and their sexual partners: an agent-based network modeling study. *The Lancet Regional Health–Americas*, 28. <https://doi.org/10.1016/j.>
3. Ducharme, L., **Fujimoto, K.**, \*Kuo, J., Stewart, J., Taylor, B., Schneider, J.A. (2024). Collaboration and growth in a large research cooperative: A network analytic approach. *Evaluation and Program Planning*, 102, 102375. [doi.org/10.1016/j.evalprogplan.2023.102375](https://doi.org/10.1016/j.evalprogplan.2023.102375).
4. \*Salyards, M., Nijhawan, A.E., \*Kuo, K., Knights, S.M., Lazarte, S., Labo, N., Miley, W., Whitby, D., Hwang, L-Y., Kornberg, A.W., **Fujimoto, K.**, & Chiao, E.Y. (2023). Prevalence, incidence, and predictors of Kaposi sarcoma-associated herpesvirus infection among young men who have sex with men in the southern United States, *The Journal of Infectious Diseases*. <https://doi.org/10.1093/infdis/jiad384>.
5. \*Zhao, B., Huepenbecker, S., Zhu, G., Rajan, S. S., **Fujimoto, K.**, & Luo, X. (2023). Comorbidity network analysis using graphical models for electronic health records. *Front. Big Data*, 6 (Data Mining and Management). [doi.org/10.3389/fdata.2023.846202](https://doi.org/10.3389/fdata.2023.846202).
6. \*Amboree, T.L., Nyitray, A.G., Schneider, J., Gargurevich, N., Kuo, J., Chiao, E.Y., Hwang, L.Y., & **Fujimoto, K.** (2023). Are human papillomavirus knowledge and vaccine uptake associated with HIV status and social determinants of health in young sexual minority men? *Preventive Medicine Reports*, p.102132.
7. †\*Lee, F., †Khanna, A. S., \*Hallmark, C. J., \*Lavingia, R., McNeese, M., \*Zhao, J., McNeese, M., Khuwaja, S., Ardestani, B. M., Collier, N., Ozik, J., Hotton, A., Harawa, N. T., Schneider, J. A., & **Fujimoto, K.** (2023). Expanding Medicaid to reduce HIV transmission in Houston, Texas: Insights from a modeling study. *Medical Care*, 61(1), 12–19.
8. Antos, N., Flores, R., Harawa, N., Vecchio, N. D., Issema, R., **Fujimoto, K.**, Khanna, A. S., Paola, A. D., Schneider, J. A., Hotton, A. L. (2023) Factors associated with HIV testing and treatment among young Black MSM and trans women in three jail systems. *AIDS Care*, 35(1) ,123-130. [doi: 10.1080/09540121.2022.2094312](https://doi.org/10.1080/09540121.2022.2094312). Epub 2022 Jul 17. PMID: 35848452.
9. Garcia, M., Devlin, S., Kerman, J., **Fujimoto, K.**, Hirschhorn, L. R., Phillips, G. II, Schneider, J. A., & McNulty, M. C. (2023) Ending the HIV epidemic: identifying barriers and facilitators to enhance public health efforts to implement molecular HIV surveillance to develop real-time cluster detection and

- response interventions for local communities. *International Journal of Environmental Research and Public Health*, 20(4), 3269. doi: 10.3390/ijerph20043269.
10. \*Adzrago, D., Harrell, M. B., **Fujimoto, K.**, Jones, A., & Wilkerson, J. M. (2023). Association between e-cigarette use behaviors and anxiety/depression among Black/African American adults based on sexual identity. *International Journal of Environmental Research and Public Health*, 20(3), 2078.
  11. \*Hallmark, C. J., Luswata, C., Del Vecchio, N., Hayford, C., Mora, R., Carr, M., McNeese, M., Benbow, N., Schneider, J. A., Wertheim, J. O. & **Fujimoto, K.** (2023). Predictors of HIV molecular cluster membership and implications for partner services. *AIDS Research and Human Retroviruses*. doi.org/10.1089/aid.2022.0088.
  12. \*Devlin, S. A., Garcia, M., **Fujimoto, K.**, Hallmark, C., McNeese, M., Schneider, J. and McNulty, M. C. (2022). “Everything... Fell Apart Once COVID-19 Hit”—Leveraging the COVID-19 Response to Strengthen Public Health Activities toward Ending the HIV Epidemic: A Qualitative Study. *International Journal of Environmental Research and Public Health*, 19(22), 15247.
  13. \*Mazrouee, S., Hallmark, C. J., Mora, R., Del Vecchio, N., Hernandez, C. R., Carr, M., McNeese, M., **Fujimoto, K.**, & Wertheim, J. O., 2022. Impact of molecular sequence data completeness on HIV cluster detection and a network science approach to enhance detection. *Scientific Reports*, 12(1), 1–10.
  14. \*Adzrago, D., **Fujimoto, K.**, Harrell, M. B., Jones, A., & Wilkerson, J. M. (2022). Association between e-cigarette use behaviors and perceived harmfulness of e-cigarettes and anxiety/depression symptoms among Black/African American Adults. *Preventive Medicine Reports*, 102080.
  15. \*Antos, N., Flores, R., Harawa, N., Del Vecchio, N., Issema, R., **Fujimoto, K.**, Khanna, A. S., Di Paola, A., Schneider, J. A. & Hotton, A. L. (2022). Factors associated with HIV testing and treatment among young Black MSM and trans women in three jail systems. *AIDS Care*, 1–8.
  16. \*Arevalo, M., Pickering, T. A., Vernon, S. W., **Fujimoto, K.**, Peskin, M. F., & Farias, A. J. (2022). Do breast cancer survivors with a recent history of clinical depression report worse experiences with care? A retrospective cohort study using SEER-CAHPS data. *Cancer Medicine*. doi: <https://doi.org/10.1002/cam4.5031>.
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101. **Fujimoto, K.**, Chou, C. P., & Valente, T. W. (2011). The network autocorrelation model using two mode data: Affiliation exposure and potential bias in the autocorrelation parameter. *Social Networks*, *33*(3), 231–243. doi: 10.1016/j.socnet.2011.06.001. PMID: PMC3167212.
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105. Valente, T. W., **Fujimoto, K.**, Palmer, P., & Tanjasiri, S. P. (2010). A network assessment of community-based participatory action: Linking communities and universities to reduce cancer disparities [Special issue]. *American Journal of Public Health*, *100*(7), 1319–1325. doi:

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108. **Fujimoto, K.** (2007). The framework of the IRB system in the United States and its issues: Towards establishing a system of research participant protections in the protections in the Japanese social sciences (in Japanese). *Advanced Social Research (Sentan Shakai Kenkyu)*, *6*, 165–188.
109. Chung, A., Liou, D., Karlan, S., Waxman, A., **Fujimoto, K.**, Hagiike, M., & Phillips, E. H. (2006). Preoperative FDG-PET for axillary metastases in patients with breast cancer. *Archives of Surgery*, *141*(8), 783–789. doi:10.1001/archsurg.141.8.783.
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111. **Fujimoto, K.** (2004). Feminine capital: Forms of capital in the female labor market in Japan. *The Sociological Quarterly*, *45*(1), 91–111. doi: 10.1111/j.1533-8525.2004.tb02399.x.
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### **Book Chapters**

114. \*Becker, E. R., Myneni, S., Shegog, R., **Fujimoto, K.**, Savas, L. S., Frost, E. L., Healy, C. M., Spinner, S., & Vernon, S. W. (2022). Parent engagement with a self-tailored cancer prevention digital behavior change intervention: Exploratory application of affiliation network analysis. *Studies in Health Technology and Informatics*, *290*, pp. 819–823.
115. †**Fujimoto, K.**, \*Hallmark, C. J., Mauldin, R. L., \*Kuo, J. C., Smith, C., \*Del Vecchio, N., Kuhns, L. M., Schneider, J. A., & †Wang, P. (2021). Brokerage-centrality conjugates for multi-level organizational field networks: Toward a blockchain implementation to enhance coordination of healthcare delivery. (Eds.) Weber, M. S., & Yanovitzky, I. *Networks, Knowledge Brokers, and the Public Policymaking*. Springer International Publishing AG, Cham, pp. 265–314. doi: [https://doi.org/10.1007/978-3-030-78755-4\\_11](https://doi.org/10.1007/978-3-030-78755-4_11).

### Conference Proceedings

116. \*Manas, S., \*Young, L. E., **Fujimoto, K.**, Franklin, A., & Myneni, S. (2019). Exploring the social structure of a health-related online community for tobacco cessation: A two-mode network approach. *Studies in Health Technology and Informatics*, 264, (pp. 1268–1272).
117. \*Amith, M., **Fujimoto, K.**, & Tao, C. (2019). NET-EXPO: A Gephi plugin towards social network analysis of network exposure for unipartite and bipartite graphs. *Human-Computer Interaction International (HCII) Conference 2019*. Springer Nature Switzerland AG. C. Stephanidis (Ed.): HCII 2019, Communications in Computer and Information Science (CCIS) (*Conference Proceedings*), 1034, pp. 1–10, 2019.doi.org/10.1007/978-3-030-23525-3\_1.
118. **Fujimoto, K.** (2012). Using mixed-mode networks to disentangle multiple sources of social influence. *International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction. Lecture Notes in Computer Science book series (LNISA, 7227)*, pp. 214–221). Springer, Berlin, Heidelberg.

### CONFERENCE PRESENTATIONS & POSTERS (2023)

1. **Fujimoto, K.**, Liu, L., Kuo, J., Gao, B., Brown, A., Luo, X., & Bahl, J. (November, 2023). Advancing COVID-19 predictive model in social networks with multilayer graph attention network fusion. *Complex Network 2023: The 12th International Conference on Complex Networks and their Applications*, Menton Rivera, France.
2. †Amboree, T. L., †Kuo, J., Sirak, B. A., Imahashi, M., Chiao, E. Y., Schneider, J. A., Hwang, L.-Y., Nyitray, A. G., Giuliano, A. R., & **Fujimoto, K.** (December, 2023). Presented by Imahashi, M. Comparative Assessment of Anal Human Papillomavirus Genotyping Assays: Discordance between the Linear Array and LiPA25 Systems for High-Risk Genotypes. *The 37th Annual Meeting of the Japanese Society for AIDS Research*, Kyoto, Japan
3. **Fujimoto, K.** Kuo, J., Scott, G., Lewis, R., Carr, M., Lyu, L., Veytsel, G., Penn, R., Bielby, M., Brown, P., Sealy, R., Hopkins, L., Brown, A., & Bahl, B. (June, 2023). Network science approach for characterizing contact networks for SARS-CoV-2 transmission. Poster presentation. Sunbelt Conference: *Sunbelt 2023: International Network for Social Network Analysis*, Portland, Oregon.

### TEACHING

#### Courses taught

Spring 2017–2023 (online)	PH1324: Applied Discrete Data Analysis Using Stata Department of Health Promotion & Behavioral Sciences UTHealth School of Public Health, Houston, TX
Fall 2015–2024	PH1321L: Social Networks and Health (Co-teach, 50%) Department of Health Promotion & Behavioral Sciences Department of Epidemiology, Human Genetics, & Environmental Sciences UTHealth School of Public Health, Houston, TX
Spring 2013–2016	PH1830: Categorical Data Analysis Department of Biostatistics UTHealth School of Public Health, Houston, TX
Spring and Fall, 2000	STAT0200: Basic Applied Statistical Methods (Teaching Fellow) Department of Statistics University of Pittsburgh, Pittsburgh, PA

## **PROFESSIONAL SERVICE**

### **GRANT REVIEW PANELS**

#### ***Standing Committee Member***

2019–2023

Population and Public Health Approaches to HIV/AIDS (PPAH) Study Section, NIH

#### ***Ad Hoc Committee Member***

2014–2019

Modeling and Simulation to Optimize HIV Prevention Research, NIH

US – Russia Bilateral Collaborative Research Partnerships (CRP) on the Prevention and Treatment of HIV/AIDS and HIV-Associated Comorbidities, NIH

US – China Program for Collaborative Biomedical Research Section, NIH

Accelerating Improvements in the HIV Care Continuum Section, NIH

Systems Science and Health in the Behavioral and Social Sciences Section Modeling Social Behavior Section, NIH

Multidisciplinary Studies of HIV/AIDS and Aging Section, NIH

Behavioral and Social Science Approaches to Preventing HIV/AIDS Section, NIH

Behavioral and Social Consequences of HIV/AIDS Study Section, NIH

AIDS and AIDS Related Research Section, NIH

#### ***International***

2016–2019

Medical Research Council, UK Research and Innovation (UKRI)

The Netherlands Organisation of Health, Research and Development (ZonMw)  
Israeli Science Foundation

## **EDITORIAL BOARD**

### ***Associate Editor***

2023–Present

*Social Networks* (An Elsevier Journal)

## **MENTORSHIP SERVICE**

### ***Co-mentor for Past NIH/NSF Career Development Awards***

NIH/DHHS K99HD094648-01A1 (PI: Lindsay, Y. E.) 08/18–07/21  
Current position: Assistant professor (tenure track), University of Southern California

NIH/NIDA K99DA044277-01A1 (PI: Georges, K. E.) 05/18–04/20  
Current position: Assistant professor (tenure track), University of Florida

NIH/NIDA 1K99 DA041494-01A1 (PI: Kanamori, M. N.) 07/16–05/18  
Current position: Associate professor, University of Miami

NIH/NIAAA 1K01AA023849-01A1 (PI: Braitman, A. L.) 09/16–08/21

NIH/NIAAA F31AA024377 (PI: Krieger, H.) 09/15–08/18

NSF#1702643 (PI: Mauldin, R.) 05/17–04/18  
Current position: Assistant professor (tenure track), University of Texas, Arlington

NIH/NIAID 1R01AI130460-01 Diversity supplement (PI: Amith, M. F.) 08/19–01/21  
Current position: Assistant professor, University of Texas Health Science Center at Houston

Co-mentor for NLM Training Program in Biomedical Informatics & Data Science for Predoctoral and Postdoctoral Fellows 2022–present

## **INVITED PRESENTATIONS & GUEST LECTURES/PRESENTER**

1. Presenter for “Applying social network analysis to HIV research: Exploring blockchain solutions.” (September, 2023). Workshop for the Center for Applied Network Analysis (CANA), University of Southern California.

2. Presenter for “Synthesizing network science, graph-based deep learning, and blockchain in data science for HIV research: Addressing health inequities and complex graph-structured data.” (2023, June). CFAR Symposium on Statistics and Data Science in HIV. Brown University, Providence Rhode Island.
3. Presenter for “Blockchain-based HIV testing management system” (2022, November). Texas Developmental Center for AIDS research (TX D-CFAR) Research Forum, 2022 NIH Supplement Award.
4. Guest lecturer for “Application of social network analysis to HIV/STI research” (2022, October). Behavioral Sciences Core, The Master of Public Health in Global Health (MPH) course. Tokyo Medical and Dental University (TMDU).
5. Presenter for “Applying social network analysis to HIV/STI research” (2022, June). HIV Research Group Meeting. Texas Developmental Center for AIDS research (TX D-CFAR).
6. Presenter for “Applied researches and methods” and Panelist (2019, November). The 31st Annual Dokkyo International Forum: Recent Trends in Social Network Analysis, Dokkyo University International Center, Dokkyo University, Saitama, Japan.
7. Presenter and Panelist for “The role of network analysis as a key method and theoretical approach for engaging in research on policymaking, knowledge/research evidence and health & youth outcomes” (2019, September). WTG (William T. Grant Foundation) Knowledge Networks and the Public Policymaking Process Workshop, University of Minnesota, Minneapolis, MN.
8. Panelist for “Sustaining a career in SGM health research” (2019, May). Regional Workshop on Sexual and Gender Minority (SGM) Health Research, hosted by NIH/Sexual & Gender Minority Research Office (SGMRO) & Emory University, Atlanta, GA.
9. Discussant for “The use of modeling methods and knowledge gained from alcohol behavioral research to advance HIV prevention interventions” (2019, January). Conference for Alcohol Behavioral HIV Prevention Research: Mechanisms and Intervention Development, hosted by NIH/NIAAA & Syracuse University, Bethesda, MD.
10. Presenter, Application of network modeling approach to HIV research among young men who have sex with men (2018, October). Modeling Social Dynamics & Health Behavior Conference, hosted by Public Health Dynamics Laboratory Center for Social Dynamics & Community Health, BCHS, University of Pittsburgh, PA.
11. Lecturer, Social network analysis applied to HIV research (2018, September). Seminar Series Present by Department of Health Policy & Management, Florida International University, Miami, FL.
12. Lecturer, HIV and venue-based social networks (2017, November). UTMB Galveston AIDS Education Training Center (AETC) Lunch and Learn Lecture series, Center for Global Health Education, UTMB Health, Galveston, TX.

13. Lecturer, Social network analysis in HIV/AIDS research (2017, April). Graduate College of Social Work, University of Houston, Houston, TX.
14. Presenter, Multiplex network analysis applied to the study of Building Agent-based models of Racialized justice systems (BARS). (2016, January). Retreat hosted by UCLA, Los Angeles, CA.
15. Lecturer, Application of social network analysis to HIV/AIDS research. (2016, January). Center for HIV Identification, Prevention and Treatment Services (CHIPTS), Methods Core Seminar Series. UCLA, LA, CA.
16. Presenter, Application of social network analysis to HIV/AIDS research. (2016, January). AIDS Research Forum, Center for AIDS Research (CFAR) Baylor-UT, Houston, TX.
17. Presenter, Social network analysis in HIV/AIDS research. (2015, May). Retreat hosted by Global Security Sciences, Argonne National Laboratory, Argonne, IL.
18. Lecturer, Social networks and health. (2015, April). Seminar in the Center for Research on U.S. Latino HIV/AIDS and Drug Abuse (CRUSADA), Florida International University, Miami, FL.
19. Presenter, Social network analysis in HIV/STD research. (2015, April). Seminar in Sexuality, Science and Sandwiches, VA Houston Center for Quality of Care & Utilization Studies (HCQCUS), Department of Psychiatry & Behavioral Sciences, VA Medical Center, Houston, TX.
20. Presenter, Social network analysis in health behavioral research. (2015, March). Seminar in Pharmaceutical Health Outcomes and Policy, PHCA 6181–PHCA 7181–PHCA 8181, Department of Pharmaceutical Health Outcomes and Policy, University of Houston, Houston, TX.
21. Lecturer, Social network analysis in health behavioral research. (2014, September). IPHAM Seminar Series, Institute of Public Health & Medicine, Northwestern University, Chicago, IL.
22. Lecturer, Social network analysis in health behavioral research. (2013, December). Seminar hosted by Robert Stempel College of Public Health and Social Work (RSCPHSW), Florida International University, Miami, FL.
23. Presenter, Introduction to exponential random graph modeling and new network method of bridging. (2010, November). Department of Health Studies, University of Chicago, Chicago, IL.
24. Lecturer, Exponential random graph modeling and statistical model for network dynamics. (2009, May). NIH Office of Behavioral and Social Sciences Research and the CDC Syndemics Prevention Network, at School of Public Health, University of Michigan, Ann Arbor, MI.
25. Panelist for “The framework of the IRB system in the United States and its problems.” (2005, December). Kwansai Gakuen University, Hyogo, Japan.

**OTHER SERVICE**

- 2023 Organizing Committee Member, Student Travel Award Committee Member  
Sunbelt 2023, International Network for Social Network Analysis, Portland, OR
- 2022, 2021 Blockchain Scientific Committee Member  
An academic Track for the 5<sup>th</sup> Annual ConV2X (Converge to Accelerate) Health Tech  
Symposium: Driving Telehealth & Technology, November, 2021.
- 2013 Program Committee Member  
AAAI (Association for the Advancement of Artificial Intelligence) Fall Symposium  
2013 on Social Networks and Social Contagion, Westin Arlington Gateway,  
Arlington, VA
- 2013 Program Committee Member  
International Conference on Social Computing, Behavioral-Cultural Modeling, &  
Prediction (the SBP13 Conference), Washington, DC
- 2012 Doctoral Consortium Chair  
International Conference on Social Intelligence and Technology (SOCIETY 13),  
State College, PA

**INTRAMURAL PROFESSIONAL SERVICE*****Committee Member***

- 2019–present UTHealth Research Conflict of Interest (RCOI) Committee Member
- 2020–2021 Chair, Faculty Search Committee  
Department of Health Promotion & Behavioral Sciences  
UTHealth School of Public Health
- 2018 Faculty Search Committee Member (Methodology)  
Department of Health Promotion & Behavioral Sciences  
UTHealth School of Public Health
- 2017–2019 Faculty Council Member  
UTHealth School of Public Health

2015–2020 Curriculum Committee Member  
Department of Health Promotion & Behavioral Sciences  
UTHealth School of Public Health

**COMMUNITY ENGAGEMENT ACTIVITIES**

2020–2021 Community Advisory Board Member, Project PRIDE: Intervention to Reduce HIV risk in Young Sexual Minority Men (PI: Smith, N. G.; 1R21DA041250-01A1).