CURRICULUM VITAE

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Professor
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RESEARCH INTEREST

As a sociologist and network scientist, I seek to contribute to public health by applying social network analysis and graph neural networks to complex social systems. Areas of expertise include healthcare delivery systems, chronic disease prevention, molecular epidemiology, organizational networks, Alzheimer's disease and related dementias, cancer prevention research, adolescent health, and HIV/STI prevention. Guided by a vision to leverage innovative methodologies for personalized, network-based interventions, I am currently focused on developing advanced social network techniques and applying graph neural networks to enhance risk prediction. By integrating AI-driven approaches and exploring blockchain architecture, I hope to support data-informed solutions that can be effectively implemented within healthcare systems and community-based settings, particularly as the field adapts to the possibilities introduced by Web3.

EDUCATION

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

PROFESSIONAL EXPERIENCE

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

2016–2020	Associate Professor (with tenure), Department of Health Promotion & Behavioral Sciences (Primary), Department of Biostatistics and Data Science (Secondary), SPH Adjunct Associate Professor, SBMI, UTHealth Houston
2012–2016	Assistant Professor (tenure track), Department of Health Promotion & Behavioral Sciences (Primary appointment), Department of Biostatistics and Data Science (Secondary), SPH, Adjunct Assistant Professor, SBMI, UTHealth Houston
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, School of Public Health, UTHealth Houston
2016	Nominated for the Research Mentoring Award, School of Public Health, UTHealth Houston
2015, 2016	Nominated for ASPPH Early Career Public Health Research Award
2001–2002	Andrew Mellon Pre-doctoral Fellowship, University of Pittsburgh

RESEARCH SUPPORT

Principal Investigator/Multiple PI/Subcontracting Site PI

1. Active

NIH/NIA 1R01AG089193-01 (PI: Myneni, S., Fujimoto, K.) 09/24–06/29
Role: Multiple Principal Investigator
"Informatics-enhanced Social Networks and Affiliation Processes (ISNAP) to Promote Risk Reduction and Early Diagnosis of Alzheimer's and Related Dementias"
Leveraging large language models and social network analysis, this study aims to uncover patient priorities and the mechanisms through which social ties influence behavioral changes and care-seeking efforts to reduce the risk of Alzheimer's and Related Dementias (ADRD). The ultimate goal is to inform the development of more precise and targeted interventions and campaigns that can enhance health promotion and ADRD detection strategies within at-risk communities.

NIH/NIDA U2C DA050098 (PI: Schneider, J. A.) 09/24–06/29
Role: Site PI (Co-investigator) through the University of Chicago
"Methodology and Advanced Analytics Resource Center (MAARC) 2.0"
The Methodology and Advanced Analytics Resource Center (MAARC) 2.0 supports NIH's HEAL Initiative: JCOIN (Justice Community Opioid Innovation Network) Phase II by providing data infrastructure and analytic expertise to enhance JCOIN studies. UTHealth Houston leads the evaluation of productivity at JCOIN Phase I sites, using network methods to analyze bibliometric data. Additionally, UTHealth contributes expertise in network science to aid in developing the in silico trials framework, applying advanced techniques for agent-based network modeling.

NIH/NIDA R61 DA061831 (PI: Young, A. M.) 09/24–08/29
Role: Site PI (Co-investigator) through the University of Kentucky
"Engaging People Who Use Drugs in Harm Reduction Service Delivery: An Intravention to Reduce Risk of HIV, HCV, Overdose, and Injection-related Infections in Rural Appalachia"
The study will test the effectiveness, implementation outcomes, and cost-effectiveness of a community-tailored, peer-driven "intervention" to reduce the risk for overdose, hepatitis C, skin and soft tissue infections, and HIV in Appalachian Kentucky counties with extensive unmet harm reduction needs.

NIH/NIMHD 1R01MD019765 (PI: Young, S.) 10/24–03/29
Role: Site PI (Co-investigator) through the University of California Irvine (UCI)
"Influence of Social Media, Social Networks, and Misinformation on Vaccine Acceptance Among Black and Latinx Individuals"
This study seeks to use artificial intelligence methods on social media, social networks, and other multi-level data to identify factors influencing vaccine acceptance among Black and Latinx populations. We will study the factors affecting acceptance of vaccines to identify the relationship between social media data and vaccine acceptance among Black and Latinx followers of influencers spreading vaccine-hesitant information, examine the influence of social network factors on vaccine acceptance, and develop a visualization tool to graph and map contextual data (e.g., social media content and geographic and network location of social network ties).

CDC/NU50CK000626 (PI: Parrot, T., Bahl, J., Hutchins, R.) 03/23–08/26
Role: Subcontracting Site PI (Co-Investigator) through GDPH
"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/R01DA051843 (PI: Valente, T. W.) 08/22–07/26 (NCE)
Role: Subcontracting Site PI (Co-Investigator) 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 occur when people make network changes to be consistent with their behavior.

Co-investigator

Supplement for the Texas D-CFAR NIH/NIAID P30AI161943 (PI: Giordano, T. P.)
Role: Co-Investigator 09/22–08/25
"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.

3. Completed

Principal Investigator/MPI/Subcontracting-PI

NIH/NID; U01AI171954 (PI: Kanamori, M. N.) 08/23–06/25
Role: Site PI (Co-investigator) through the University of Miami
"UNETE: Celebrities Using Social Networks to Support Future Latinx HIV Vaccine Use and Enrollment in HIV Vaccine Clinical"
The UNETE project seeks to harness the power of social media and celebrity endorsements to encourage healthier behaviors. Celebrities, known for their strong influence on public opinion, can play a crucial role in health promotion efforts, shaping attitudes and behaviors on a broad scale. By enlisting well-known figures, the project intends to boost support for a future HIV vaccine within the Latinx community. Additionally, the research focuses on understanding vaccine acceptance among men who have sex with men (MSM), a group that has historically faced a higher risk of HIV infection.

NIH/R01MD018343 (PI: Kanamori, M. N.) 09/22–03/25
Role: Subcontracting Site PI (Co-Investigator) through the University of Miami
"Lati*NET*, 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.

Supplement for the Texas D-CFAR NIH/NIAID P30AI161943 (PI: Giordano, T. P.)
Role: Supplement PI through Baylor College of Medicine 09/22–08/24
"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/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 Adaptative 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.

UTH-MDA Population Health Initiative Collaborative Project Award (PI: Fujimoto, K. & Chiao, E.)
Role: Principal Investigator (donating 10% FTE, in-kind) 10/21–09/24
"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.

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 Adaptative 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 Site PI (Co-Investigator) through the 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 Site PI (Co-Investigator) 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.)
Role: Multiple Principal Investigator 09/20–08/22
"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.)
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") 07/15–04/22
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.)
Role: Multiple Principal Investigator, subcontract through University of Chicago, 05/18–04/22
"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 Site PI (Co-Investigator) 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 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 the 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/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

NIH/NIAID R01AI136056 (PI: Schneider, J.A, D'Aquila, R.T., & Benbow, N.)
Role: Subcontracting PI through University of Chicago 02/18–01/24
"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/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

Peer-reviewed academic journal

†Shared first author; §Corresponding author (when not first author); *Student or Postdoctoral trainee

1. Despres, L., Rodriguez, E., Shegog, R., Diez, S., Doblecki-Lewis, S., **Fujimoto, K.**, Cunningham, S. R., & Kanamori, M. (2026). Preferences for Game-Based Elements to Increase Preexposure Prophylaxis and HIV Prevention Engagement Among Latino Men Who Have Sex With Men: South Florida, 2022. *American Journal of Public Health*, *116*(S1), S10-S15. https://doi.org/10.2105/ajph.2025.308353.

2. Adzrago D, **Fujimoto K**, Wilkerson JM, Dyer TV, Williams F. (2026). Anxiety or Depression Trends by Disability Status and Demographic Intersections in US Adults, 2019-2023. *JAMA Network Open*. 2;*9*(2):e2557332.

3. Knox, J., Portier, K., Magana, C., Denning, M., Ferraris, C. M., Dove-Medows, E., Shrader, C-H., Poku, O., Kreniske, P., Remien, R., Aharonovich, E., Elliott, J. C., Nash, D., Lancaster, K., Baernighausen, T., **Fujimoto, K.**, Carrico, A., Schneider, J. A., Bouris, A., Batey, D. S., Schwartz, S. R., Bauermeister, J., Sullivan, P. S., Rosen, J. G., Wingood, G., Wainberg, M., Hasin, D., Geng, E., Wilson, P. A., Baral, S. D. (2025). COMBINE EBIs: A novel COllaborative method for building INterventions from existing evidence-based interventions. *Annals of Epidemiology*.112: 64-75.

4. †**Fujimoto, K.**, †*Liu, L., *Kuo, J., *Gao, B., *Chan, H. K., Carr, M., Sealy, R., Luo, X., & Bahl, J. (2025). Multilayer modular fusion graph attention network (MMF-GAT) for epidemic prediction. *PLOS Complex Systems*. *2*(10), p.e0000070.

5. *Lyu, L., Gill, M., *Stott, G., Subedi, S., Dailey, C., *Veytsel, G., Alabady, M., **Fujimoto, K.**, Penn, R., Brown, P., Sealy, R., & Bahl, J. (2025). Tracing SARS-CoV-2 clusters across local scales using genomic data. *Proceedings of the National Academy of Science (PNAS)*. *122*(32), p.e2501435122.

6. *Lyu, L., *Veytsel, G., *Scott, G., Fox, S., Dailey, C., Damodaran, L., **Fujimoto, K.**, Brown, P., Sealy, R., Brown, A., Alabady, M., & Bahl, J. (2025). Characterizing spatial epidemiology in a heterogeneous transmission landscape using the spatial transmission count statistic. *Communications Medicine*, *5*(1), 165.

7. Wang, P., *Hernandez, R., Fernandez, M. E., Reininger, B., Wells, R., Crum, M., Sifuentes, M. R., *Haffey, M. E., *Xia, D., Lusher, D., §**Fujimoto, K.** (2025). Using social network analysis to identify influential community organizations. *Social Science & Medicine*, *365*:117477.

8. Shrader, C. H., Duncan, D. T., Driver, R., Arroyo-Flores, J. G., Coudray, M. S., Moody, R., Chen YT, Skaathun B, Young L, del Vecchio N, **Fujimoto K**, Knox, J., Kanamori, M., & Schneider, J. A. (2024). Social Network Peer Effects on HIV Care Engagement: A fuzzy-like matching approach from the N2 cohort study. *JMIR Public Health and Surveillance,* 11*(5916)*.

9. Khurshid, A., Harrell, D., Li, D., Hallmark, C., Hanson, Viswanathan, N., Carr, M., Brown, A., MacNeese, M., §**Fujimoto, K.** (2024). Designing a blockchain technology platform for enhancing the pre-exposure Prophylaxis (PrEP) care continuum. *JAMIA Open*, *7*(4):ooae140.

10. *Singh, T., Roberts, K., **Fujimoto, K.**, Wang, J., Johnson, C., & Myneni, S. (2024). Toward personalized digital experiences to promote diabetes self-management: Mixed methods social computing approach. *JMIR Diabetes*, *9*:e60109.

11. *Yu, E., Du, J., Xiang, Y., Hu, X., Feng, J., Luo, X., Schneider, J., Zhi, D., **Fujimoto, K.**, & Tao, C. (2024). Explainable artificial intelligence and domain adaptation for predicting HIV infection with graph neural networks. *Annals of Medicine*. *56*(1): 2407063.

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Book Chapters

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Conference Proceedings

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TEACHING

Courses taught

Spring 2017–2026 (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

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

International

2016–Present

Medical Research Council, UK Research and Innovation (UKRI)
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2. Presenter for "Network intervention strategies for co-creation in the era of digital transformation (presented in Japanese)" (August 2025). The 11th academic conference of the Research Association for the Dissemination and Implementation of Science (RADISH) at the Japan National Cancer Center Research Institute. Tokyo, Japan.

3. Lecturer for "The future of prevention, medicine, and care through network analysis and next-generation technologies (presented in Japanese)" (August 2025). Seminar at the Behavioral Science Department, Cancer Control Research Institute, the Japan National Cancer Center Research Institute. Tokyo, Japan.

4. Presenter for "Blockchain-enabled translational network research in HIV prevention and beyond." (March 2024). ANN-SONIC 11th International Workshop on Network Theory, Networks in Translation: Moving Network Research into Social Practice, University of Southern California, Los Angeles, CA.

5. 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.

6. 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.

OTHER SERVICE IN RECENT YEARS

2024	Technical Organizing Committee Member, the 13th International Conference on Complex Networks and their Applications, Istanbul, Turkey
2023	Organizing Committee Member, Sunbelt 2023, International Network for Social Network Analysis, Portland, OR
2022, 2021	Blockchain Scientific Committee Member An academic Track for the 5th Annual ConV2X (Converge to Accelerate) Health Tech Symposium: Driving Telehealth & Technology, November

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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