

CURRICULUM VITAE

SAMRACHANA ADHIKARI, PhD
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CURRENT ACADEMIC AND LEADERSHIP APPOINTMENTS

- 2023 - Present Associate Professor, Division of Biostatistics
Affiliated faculty, Center for Opioid Epidemiology & Policy
Department of Population Health (DPH)
New York University Grossman School of Medicine (NYUGSoM)
- 2025 - Present Co-Director, Health Equity through Learning, Innovation, and eXchange (HELIX)
lab
Institute for the Excellence in Health Equity
NYU Langone Health
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EDUCATION AND TRAINING

Education

Year	Degree	Field	Institution
2011	B.A.	Mathematics & Economics	Mount Holyoke College, South Hadley, MA
2012	M.S.	Statistics	Carnegie Mellon University, Pittsburgh, PA
2016	Ph.D.	Statistics	Carnegie Mellon University, Pittsburgh, PA

Postdoctoral Training

2016-2018	Biostatistics	Department of Healthcare Policy, Harvard Medical School, Boston, MA Prof. Sharon-Lise Normand (Primary mentor), Prof. Sherri Rose (Secondary mentor)
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PREVIOUS APPOINTMENTS AND LEADERSHIP POSITIONS

- 2018 - 2023 Assistant Professor (tenure eligible), Division of Biostatistics
DPH, NYUGSoM
- 2019 - 2021 Visiting Faculty, Nepal Applied Mathematics and Informatics Institute for Research
Kathmandu, Nepal

AWARDS AND HONORS

External

- 2009 Paul F. McGuire Bequest Fund, Mount Holyoke College
– fellowship to accomplish an internship at MannDeshi Microfinance, India
- 2010 Research Experience for Undergraduate Fellowship
National Institute of Mathematical and Biomedical Sciences, University of Tennessee, Knoxville TN
- 2011 Summa cum laude in Statistics, Statistics Department Award, Phi Beta Kappa, Mount Holyoke College
- 2013 Data Science for Social Good Fellow, University of Chicago
- 2015 Mihaela Serban Memorial Travel Award, Carnegie Mellon University
- 2016 Association of the Information System Special Interest Group (AIS SIG) Health Best Paper Award [co-author]
- 2019 AcademyHealth and the Robert Wood Johnson Foundation Paradigm Community
Selected to Participate in Revolutionizing the Health Services Research Paradigm:
A Design Thinking-based Learning Community
- 2019 Center for the Study of Asian American Health Pilot Award
- 2020 Johnson & Johnson Women in Stem (WiSTEM2D) Scholar in Math
- 2023 CTSI / TREK Mentor Development Program, NYUGSoM
Selected to participate in the Spring 2023 cohort
- 2026 James F. Burgess Methods Article of the Year [senior author]
Health Services Research

RESEARCH ACTIVITY

GRANT HISTORY

Current

As principal investigator

Title	
	Generalizable Prediction of Medication Adherence in Heart Failure

Funding agency	NHLBI/NIH (1R01HL155149)
Role	co-PI with Saul Blecker
Start and end date	3/15/21 - 2/28/27

As co-investigator

Title	Novel methods for estimating the prevalence of drug use among older adults
Funding agency	National Institute of Health (PI: Palamar; R21DA060362)
Role	co-I
Start and end date	09/2024-08/2026

Title	Precision Monitoring of Treatment Response in Early Psoriatic Arthritis: Integrating at-Home RNA Microsampling into Ongoing, Remote, Smart Phone-Based, Digital Data Capturing
Funding agency	National Institute of Health (PI: Scher; R01AR084274)
Role	co-I
Start and end date	06/2024-05/2028

Title	Investigating the Ketamine Landscape: Availability, Medical and Recreational Use, and Effects
Funding agency	National Institute of Health (PI: Palamar; R01DA060207);
Role	co-I
Start and end date	04/2024-02/2029

Title	Understanding the short- and long-term effects of the COVID-19 pandemic on the overdose crisis
Funding agency	National Institute of Health (PI: Cerdá; R01DA058991)
Role	co-I
Start and end date	09/2023-07/2028

Title	Person-centered quality measurement and management in a system for addictions treatment in New York State
Funding agency	National Institute of Health (PI: Neighbors; RM1DA059377)
Role	co-I
Start and end date	09/2023-08/2028

Title	Organizational factors associated with quality of care for opioid use disorders among transition-age adults in Medicaid
Funding agency	National Institute of Health (PI: Neighbors; R01DA057267)
Role	co-I

Start and end date	04/2023-02/2028
Title	Genetic and Immuno-inflammatory Drivers of Post-acute Pulmonary Sequelae of SARS-CoV-2
Funding agency	National Institute of Health (PI: Abramsom; R01HL163604)
Role	co-I
Start and end date	02/2023-01/2028
Title	COVID-19 shutdown: impact of healthcare disruptions on cardiovascular health disparities among people with multiple chronic conditions in New York City
Funding agency	National Institute of Health (PI: Dodson; R01AG073321)
Role	co-I
Start and end date	09/2022-06/2027
Title	Large data spatiotemporal modeling of optimal combinations of interventions to reduce opioid harm in the United States
Funding agency	National Institute of Health (PI: Cerdá; R01DA051509)
Role	co-I
Start and end date	09/2022-06/2027
Title	Effectiveness of Indoor Air Purifiers on Heart Failure Outcomes (The PURI-HF Trial)
Funding agency	National Institute of Health (PI: Vedanthan; R01ES033222)
Role	co-I
Start and end date	09/2021-06/2027

Completed

Title	Machine Learning to Inform Family- and Population-Centered Approach to Mental Health Programming;in Asian American Children
Funding agency	NIH/NIMHHD funded NYU Center for the Study of Asian American Health Pilot Award (Principal Investigator: Trinh-Shevrin; 5U54MD000538-18)
Role	Pilot project PI
Start and end date	6/30/21 - 6/30/2022
Title	Component A: Impact of Community Factors on Geographic Disparities in Diabetes and Obesity Nationwide
Funding agency	US Center for Disease Control (5U01DP006299-04) (Principal Investigator: Thorpe/Elbel)
Role	co-I

Start and end date	9/30/2017-9/29/2022
Title	DIGICARE4U
Funding agency	European Commission – Harokopio University (Principal Investigator: Vedanthan)
Role	co-I
Start and end date	04/2021 - 09/2025
Title	Rehabilitation: At Home Using Mobile Health in Older Adults after Hospitalization for Ischemic Heart Disease
Funding agency	NIAI/National Institute of Health (Principal Investigator: Dodson; 5R01AG062520)
Role	co-I
Start and end date	7/15/19 -4/30/24
Title	Behavioral Economics Trial to Enhance Regulation of Blood Pressure (BETTER-BP)
Funding agency	NHLBI/National Institute of Health (Principal Investigator: Dodson;)
Role	co-I
Start and end date	09/2019-07/2025

EDUCATION ACTIVITY

Teaching Activities

11/2016 — **Guest Lecturer**, Introduction to the Models, Clustering and Graphical Representations for Social Network Analysis: Social Networks Seminar/ CEP991B, Graduate Level Course, Department of Counseling, Educational Psychology and Special Education, Michigan State University

12/2017 — **Guest Lecturer**, Assessment Concepts and Methods In Psychiatric Epidemiology/ EPI219, Graduate Level Course, Department of Epidemiology, Harvard T.H. Chan School of Public Health

12/2018 — **Instructor**, Introduction to Machine Learning, Nepal Winter School in Artificial Intelligence, Kathmandu, Nepal

02/2019 — **Guest Lecturer**, Introduction to the Models, Clustering and Graphical Representations for Social Network Analysis: Social Networks Seminar, Graduate Level Course, Department of Counseling, Educational Psychology and Special Education, Michigan State University

Spring 2020 — **Course Director**, Advanced Regression Modeling, Graduate Level Course for PhD students in Epidemiology, Department of Population Health, NYUG-SoM

Spring 2021 — **Course Co-Director**, Advanced Regression Modeling, Graduate Level Course for PhD students in Epidemiology and Population Health, Department of Population Health, NYUGSoM

Spring 2022 — **Course Co-Director**, Advanced Regression Modeling, Graduate Level Course for PhD students in Epidemiology and Population Health, Department of Population Health, NYUGSoM

Spring 2024 — **Guest Lecturer**, Longitudinal Trajectory Modeling in Epidemiology and Clinical Research, Graduate Level Course for PhD students in Epidemiology and Population Health, Department of Population Health, NYUGSoM

Fall 2024 — **Guest Lecturer**, Methods in Quantitative Biology (Lecture on Introduction to Inference), Graduate Level Course for PhD students in Quantitative Biology, NYUGSoM

07/2026 — **Instructor**, CTSI Bootcamp on Machine Learning and AI, NYUGSoM

Invited Talks and Teaching of Peers

Internal

11/2017 — Invited, Non-parametric Bayesian Instrumental Variable Method with Heterogenous Treatment Effects, Division of Biostatistics Seminar, DPH, NYUGSoM

05/2019 — Invited, Prediction with Rare Outcome: A Cautionary Tale, Department Seminar, DPH, NYUGSoM

04/2020 — Invited, Prediction with Rare Outcome: A Cautionary Tale, Translational Research in Progress Seminar, NYUGSoM

04/2020 — Invited, Prediction with Rare Outcome: A Cautionary Tale, Perspectives in Public Health: Doctoral Colloquium, Department of Epidemiology, NYU School of Global Public Health

09/2020 — Invited, A unified Framework for the Latent Variable Approach to Statistical Social Network Analysis, PRIISM Seminar Series, Department of Applied statistics, NYU Steinhardt

03/2022 – Invited, A unified Framework for the Latent Variable Approach to Statistical Social Network Analysis, Joint Biostatistics Seminar, Department of Biostatistics, NYU School of Global Public Health

11/2024 – Invited, Prediction of Medication Adherence in Heart Failure Patients Using Machine Learning, Department Seminar, DPH, NYUGSoM

External to NYU

10/2014 — Invited, Statistical Analysis of Real-World Network, Math and Stat Club, Department of Mathematics, Mount Holyoke College, South Hadley, MA

10/2015 — Invited, Longitudinal Latent Space Network Model with Application in Education, MoRRE Research Group, Department of Educational Psychology Quantitative Methods Program, University of Texas, Austin, TX

08/2016 — Invited, Longitudinal Latent Space Network Model with VAR Evolution, Session in Social Science Section, Joint Statistical Meeting, 2016, Chicago, IL

10/2017 — Invited, Post PhD Academic Life, Women in Statistics Group seminar series, Department of Statistics and Data Science, CMU, Pittsburgh, PA

11/2017 — Invited, Causal Inference in Observational Data with Unmeasured Confounding, Department Seminar, Department of Statistics and Actuarial Science, University of Waterloo, Canada

05/2019 — Invited, Prediction with Rare Outcome: A Cautionary Tale, Annual Thomas Ten Have Symposium on Statistics in Mental Health, New Haven, CT

11/2019 — Invited, Survival Analysis with Spatial Risk-factors in R, Rladies NYC, New York, NY

06/2021 — Invited, Role of Data Science in Medical Decision Making, AI and Society Speaker Series, Global Institute of Integrated Studies, Kathmandu, Nepal

06/2021 — Invited, Role of Data Science in Medical Decision Making, Department of Computer Science, Tribhuwan University, Kathmandu, Nepal

07/2021 — Invited, Role of Data Science in Medical Decision Making, Women in Data Science, Kathmandu, Nepal

08/2021 — Invited, Role of Data Science in Medical Decision Making, Janssen Data Science Learning Group

08/2021 — Invited Discussant, Evaluating Causal Effects using Incomplete Data with Interference in Public Health Research, Topic Contributed Session, Joint Statistical Meetings

11/2021 — Invited, A unified Framework for the Latent Variable Approach to Statistical Social Network Analysis, Classification Society Meeting, Lewisville, PA

03/2022 — Invited, Role of Data Science in Medical Decision Making, Math-Stat colloquium, Swarthmore College, PA

08/2022 – Invited, Nonparametric Bayesian Instrumental Variable Analysis: Evaluating Heterogeneous Effects of Coronary Arterial Access Site Strategies, Session on Bayesian Nonparametric and Machine Learning Approaches for Causal Inference, International Society of Clinical Biostatistician Conference, New Castle, UK

12/2022 – Invited, Hierarchical Bayesian Agent Based Models, Session on Modern Causal Methods for Clinical and Health Policy Research, CMStatistics, Kings College London, UK

03/2023 – Invited, Introduction to Latent Variable Network Influence Models, “Causal Inference in Networks: Applications to Public Health” Spring Virtual Workshop, University of Rhode Island, RI

06/2023 – Invited, Latent Variable Network Influence Models to Account for Confounding Due to Latent Homophily, Invited Session on New advances in causal inference and missing data, International Chinese Statistical Association China Meeting, Chengdu, China

10/2023 – Invited, Methodological Challenges And Opportunities For Population Health Research Using Electronic Health Records, Joint Webinar Hosted by Applied Public Health Statistics Section of the American Public Health Association and Department of Biostatistics, Epidemiology and Environment Health Sciences, Jiann-Ping Hsu College of Public Health, Georgia Southern University, GA

11/2023 – Invited, Methodological Challenges And Opportunities For Population Health Research Using Electronic Health Records, Center for Quantitative Medicine Seminar Series, Duke-National University of Singapore Medical School, Singapore

12/2023 – Invited, Methodological Challenges And Opportunities For Population Health Research Using Electronic Health Records, Department of Biostatistics and Data Science, Wake Forest Medical Center, NC

03/2024 – Invited, Methodological Challenges And Opportunities For Population Health Research Using Electronic Health Records, Department of Biostatistics, Rutgers School of Public Health, NJ

05/2024 – Invited, A Bayesian Approach To Estimate Causal Peer Influence Accounting For Latent Network Homophily, Invited Session on Design and Analysis of

Network-Based Studies to Inform Public Health and Education Policy, New England Statistical Symposium 2024, CT

09/2024 – Invited roundtable panelist, Discussion session on AI in Global South during UN General Assembly meetings, Wilson Center’s Science and Technology Innovation Program, NY

11/2024 – Invited, Methodological Challenges in the Evaluation of Local Policy, Methods Webinar, Brandeis-Harvard SPIRE Center- SUD Systems Performance Improvement Research and Engagement, Virtual

01/2025 – Invited, Ensemble Machine Learning Model Incorporating Multi-Level Factors to Predict Medication Adherence in a Large EHR Cohort of Heart Failure Patients, Topic contributed session on Data Analytics for Health Outcomes, 15th International Conference on Health Policy Statistics, San Diego, CA

03/2025 – Invited, Methodological challenges in the evaluation of local policy effects on overdose outcomes, Distinguished Faculty Seminar Series, Penn Center for Causal Inference, Department of Biostatistics, Epidemiology and Informatics, University of Pennsylvania, PA

03/2025 – Invited panelist, Technological Advancement to support Heart Health, Take the Pressure Off, NYC!’s 4th Hypertension Summit, NYC Department of Health & Mental Hygiene

06/2025 – Invited, Bayesian causal methods in the Evaluation of Overdose Harm-reduction Policies: A Case Study To Evaluate SSP Laws, Invited session on Local Policies Matter for Health: How Can We Measure and Evaluate Them?, Society for Epidemiological Research (SER) Annual Meeting, Boston, MA

12/2025 Invited, Bayesian causal methods in the Evaluation of Overdose Harm-reduction Policies, Invited Session on ‘Causal Inference methods for policy evaluation and treatment decision making’, 19th International Conference on Computational and Financial Econometrics Computational and Methodological Statistics CFE-CMStatistics 2025 (virtual)

01/2026 – Invited, Leveraging Electronic Health Records for Research Opportunities in Population Health, Wake Forest Medical Center, NC

07/2026 – Invited, Generalizability of Ensemble Machine Learning Model for Medication Adherence Prediction: A Case Study from two Large Health Systems in NYC, Contributed Session at the International Biometric Conference, Seoul, South Korea

MENTORING AND ADVISING

Predoctoral Students Supervised and/or Mentored

Rotation Advisor

01/2019 - 08/2019	Jaclyn Szymonifka	Biostatistics
01/2019 - 08/2019	Nicholas Pantaleo	Biostatistics
01/2021 - 04/2021	Carlos Samuels	Biostatistics
05/2021 - 08/2021	Gayatri Maria Schur	MD/PhD graduate program
10/2021 - 12/2021	Shiying Yu	Population Health
01/2022 - 01/2023	Veronika Bailey	Biostatistics
10/2021 - 01/2023	Steven Lawrence	Biostatistics
10/2022 - 01/2022	Antonio D'Alessandro	Biostatistics
01/2023 - 01/2024	Annan Deng	Biostatistics

Dissertation Advisor or Co-advisor

01/2019 - 09/2023	Nicholas Pantaleo	Epidemiology Recipient of T32 predoctoral fellowship Currently at Google
01/2023 - 05/2026	Steven Lawrence	Biostatistics Supported by NIH/NHLBI Diversity Supplement to 1R01HL155149
01/2023 - Present	Veronika Bailey	Biostatistics
10/2023 - Present	Antonio D'Alessandro	Biostatistics

Dissertation Committee (Member of Chair)

09/2019 - Present	Tabitha F. Julien	Epidemiology
09/2019 -12/2021	Melanie Baker	Epidemiology
09/2019 - 08/2020	Jinchun Zhang	Biostatistics Current: Merck Pharmaceuticals
06/2020 - 08/2021	Nina Orwitz	Biostatistics Current: Novartis
01/2020 - 08/2023	Jasmyn Abrams	Epidemiology
04/2022 - 02/2024	Juan Gago	Epidemiology
04/2022 - 07/2025	Hanchao Zhang	Biostatistics
04/2023 - Present	Qiao Zhang	Biostatistics
06/2023 - 05/2024	Vishwali Mhasawade	Computer Science
01/2024 - 06/2025	Samantha Doonan	Epidemiology

01/2024 - Present	Shiying Yu	Population Health
08/2025 - Present	Axel Martin	Biostatistics
12/2025 - Present	Richard Liu	Biostatistics
12/2025 - Present	Annan Deng	Biostatistics
02/2026 - Present	Christian Victoria	Epidemiology

Postdoctoral Students Supervised and/or Mentored

09/2019 - 12/2021	Angela Aifah	T-32 Postdoctoral Fellow Department of Population Health, Biostatistics advisor on a diversity supplement (awarded) (Current: Assistant Professor of Population Health)
08/2021 - 08/2024	Seungha Um	Postdoctoral Fellow (Biostatistics) Department of Population Health Primary mentor Currently a postdoctoral fellow at NIH National Human Genome Research Institute Incoming tenure-track assistant professor Luisiana State University
11/2022 - 12/2024	Tyrel Stokes	Postdoctoral Fellow (Biostatistics) Department of Population Health Primary mentor

Faculty Mentored

02/2019 - Present	Alexander F. Glick	Assistant Professor, Department of Pediatrics Role: Advisor in biostatistics for K23-grant award
02/2021 - 12/2022	Carol Duh-Leong	Assistant Professor, Department of Pediatrics Role: Advisor in biostatistics for K23-grant proposal submission
12/2022 - Present	Amrita Mukhopadhyay	Eugene Braunwald, MD Assistant Professor of Cardiology Role: Co-mentor for K23-grant award Methodological mentor for American Heart Association career development award
12/2022 - Present	Adam Faye	Assistant Professor of Medicine & Population Health Role: Advisor in biostatistics for American College of Gastroenterology 2023 Junior Faculty Award Advisor in biostatistics for Paul B. Beeson emerging

07/2023 - Present	Byoungjun Kim	leaders career development award in Aging (K76) Research Assistant Professor of Surgery & Population Health Role: Advisor in biostatistics for K01 award
05/2025 - Present	Michele Santacatterina	Assistant Professor of Population Health Role: Member of the faculty mentoring committee
05/2025 - Present	Nick Illenberger	Assistant Professor of Population Health Role: Member of the faculty mentoring committee
05/2025 - Present	Chan Wang	Research Assistant Professor of Population Health Role: Member of the faculty mentoring committee

INSTITUTIONAL, LOCAL/NATIONAL SERVICE AND RELATED ACTIVITY

Institutional Service

2018 - 2023	Biostatistics Seminar, Organizer, Division of Biostatistics, DPH, NYUGSoM
2018 - 2019, 2023-2024	Biostatistics Journal Club, Organizer, Division of Biostatistics, DPH, NYUGSoM
2018 - 2025	Biostatistics Research Meetup, Co-organizer, Division of Biostatistics, DPH, NYUGSoM
2019 - 2025	Causal Inference Working Group, Member, DPH, NYUGSoM
2020 - 2021	DPH Anti Racism Coalition, Member, NYUGSoM
2024 - Present	Departmental Appointment and Promotion Committee, Member, DPH, NYUGSoM
2025 - Present	Faculty Council, DPH Representative NYUGSoM

Service for Professional Organizations

2020	Program Chair, Biometrics Section of the American Statistical Association
2023 - Present	Member and Board Liaison, Outreach and Communications Committee, Society for Causal Inference
2024 - 2027	Elected Member at Large, Society for Causal Inference Executive Board

Peer Review Groups, Grant Application Review Groups, and Study Sections

2019	Review Panel: Ontario Research Fund: Advanced Health Technologies
2021	Study Sections, National Institutes of Health (NIH) (ad hoc member of Clinical Data Management and Analysis study section)
2021	Special Emphasis Panels/Scientific Review Groups: NIH National Cancer Institute Program Project V (P01)

- 2022 Study Sections, NIH (ad hoc member of Clinical Data Management and Analysis study section)
- 2023 Special Emphasis Panels/Scientific Review Groups: NIH Health Services and Systems Review Branch
- 2024 Special Emphasis Panels/Scientific Review Groups: NIH/NIMH Precision Mental Health: Develop Tools to Inform Treatment Selection in Depression (UG3/UH3)
- 2024 Study Sections, NIH (ad hoc member of Health Services: Quality and Effectiveness study section)
- 2024 Department of Defense (DOD) Congressionally Directed Medical Research Programs, ad hoc reviewer for autism research panel
- 2025 Special Emphasis Panels/Scientific Review Groups: DoD-Uniformed Services University and University of Idaho Research Partnership Initiative Grant Applications
- 2026 NIH Study Section (ZRG1 HSS-R(90))Topics in Clinical Data Management, Analysis, Informatics & Digital Health; ad hoc member

Advisory Boards and Consultant Positions

- 2021 - 2023 Data and Safety Monitoring Board (DSMB) member for NIMH/NIH funded R33 study titled “Novel Behavioral Intervention to Target Social Reward Sensitivity and Attachment” (R33MH113769)
- 2023 - Present DSMB member for NHLBI/NIH funded R01 study titled “Longitudinal Investigation of Sleep, Memory, and Brain Development Across the Nap Transition” (1R01HL164628-01)
- 2024 - Present DSMB member for NIMH/NIH funded R01 study titled “A type II hybrid implementation-effectiveness study of BECOME (BEhavioral Community-based COmbined Intervention for MEntal Health and Noncommunicable Diseases) delivered by community health workers” (1R01MH133231-01)
- 2025 - Present Data Science Advisor, Possible Health Nepal (Unpaid)

Organizing Roles in Scientific Meetings

- 2018 Organizing Committee, First Nepal Winter School in Artificial Intelligence
Nepal Applied Mathematical Institute for Research, Kathmandu, Nepal
- 2019 Organizing Committee, Nepal Winter School in Artificial Intelligence
Nepal Applied Mathematical Institute for Research, Pokhara, Nepal
- 2020 Organizer and moderator, Invited Session on 'New Avenues for Network Analysis in Health Policy Research:
Social Networks in the Context of Selection, Peer influence and Mediation"
International Conference on Health Policy and Statistics, San Diego, CA

2024 Organizing Committee, NYU Langone Biostatistics Symposium: Advances in Causal Inference, New York, NY

Editorial and Journal Positions

Ad Hoc Reviewer

Annals of Applied Statistics

AI for Social Good Workshop, ICML 2019 and ICRL 2019

Bayesian Analysis

Biostatistics

Biometrics

BJPsych Open, Nature Communications

Clinical Journal of the American Society of Nephrology

Health Services and Outcomes Research Methodology

Harvard Data Science Review

JAMA Network Open

Journal of Behavioral Statistics

National Science Foundation

PLOS One

Robert Wood Johnson Foundation Health Data for Action Proposal

Statistical Methods & Applications

Statistics in Medicine

Neurips

BIBLIOGRAPHY

Peer-reviewed Publications

Statistical Methods And Technical Reports

1. Sriram Somanchi, **Samrachana Adhikari**, Allen Lin, Elena Eneva, and Rayid Ghani. Early prediction of cardiac arrest (code blue) using electronic medical records. In *Proceedings of the 21st Association of the Information System Special Interest Group (ACM SIG)) International Conference on Knowledge Discovery and Data (KDD) Mining*, pages 2119–2126, 2015
2. **Samrachana Adhikari** and Beau Dabbs. Social network analysis in R: a software review. *Journal of Educational and Behavioral Statistics*, 43(2):225–253, 2018
3. **Samrachana Adhikari**, Fabrizio Lecci, James T Becker, Brian W Junker, Lewis H Kuller, Oscar L Lopez, and Ryan J Tibshirani. High-dimensional longitudinal classification with the multinomial fused lasso. *Statistics in Medicine*, 38(12):2184–2205, 2019
4. Tracy Sweet and **Samrachana Adhikari**. A latent space network model for social influence. *Psychometrika*, 85(2):251–274, 2020
5. Beau Dabbs, **Samrachana Adhikari**, and Tracy Sweet. Conditionally independent dyads (cid) network models: A latent variable approach to statistical social network analysis. *Social Networks*, 63:122–133, 2020
6. **Samrachana Adhikari**, Sherri Rose, and Sharon-Lise Normand. Nonparametric bayesian instrumental variable analysis: Evaluating heterogeneous effects of coronary arterial access site strategies. *Journal of the American Statistical Association*, 115(532):1635–1644, 2020
7. **Samrachana Adhikari**, Sharon-Lise Normand, Jordan Bloom, David Shahian, and Sherri Rose. Revisiting performance metrics for prediction with rare outcomes. *Statistical Methods in Medical Research*, 30(10):2352–2366, 2021
8. **Samrachana Adhikari**, Tracy Sweet, and Brian Junker. Analysis of longitudinal advice-seeking networks following implementation of high stakes testing. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 2021
9. Tracy M Sweet and **Samrachana Adhikari**. A hierarchical latent space network model for mediation. *Network Science*, 10(2):113–130, 2022
10. **Samrachana Adhikari**, Shiyong You*, Alan Chen*, Sabrina Cheng, and Keng-Yen Huang. Applied machine learning to identify differential risk groups underlying externalizing and internalizing problem behaviors trajectories: A case study using a cohort of asian american children. *Plos one*, 18(3):e0282235, 2023
11. Seungha Um and **Samrachana Adhikari**. Considerations in bayesian agent-based modeling for the analysis of covid-19 data. *Statistical Analysis and Data Mining: The ASA Data Science Journal*, 17(1):e11655, 2024

12. Sarah Conderino, Jasmin Divers, John A Dodson, Lorna E Thorpe, Mark G Weiner, and **Samrachana Adhikari**. Evaluating methods for imputing race and ethnicity in electronic health record data. *Health Services Research*, page e14649, 2025
13. Seungha Um, Tracy Sweet, and **Samrachana Adhikari**. A bayesian approach to estimate causal peer influence accounting for latent network homophily. *Journal of the Royal Statistical Society Series A: Statistics in Society*, page qnaf131, 2025
14. **Samrachana Adhikari**, Tyrel Stokes, Xiyue Li, Yunan Zhao, Cassidy Fitchett, Nathalia Ladino, Steven Lawrence, Min Qian, Young S Cho, Carine Hamo, et al. Machine learning based prediction of medication adherence in heart failure using large electronic health record cohort with linkages to pharmacy-fill and neighborhood-level data. *Journal of the American Medical Informatics Association*, page ocaf162, 2025
15. Antonio D’Alessandro, Jiyu Kim, **Samrachana Adhikari**, Donald Goff, Falco J Bargagli Stoffi, and Michele Santacatterina. Modern causal inference approaches to improve power for subgroup analysis in randomized controlled trials. *Statistics In Medicine*, 2026
16. Steven Lawrence, Keith Goldfeld, Peter Craigmille, Saul Blecker, and **Samrachana Adhikari**. Assessing specification assumptions in urban pharmacy accessibility in new york city . *Spatial and Spatio-temporal Epidemiology*, In press

Collaborative Biomedical Applications

17. James P Spillane, Matthew Shirrell, and **Samrachana Adhikari**. Constructing “experts” among peers: Educational infrastructure, test data, and teachers’ interactions about teaching. *Educational Evaluation and Policy Analysis*, 40(4):586–612, 2018
18. Mia T Minen, **Samrachana Adhikari**, Elizabeth K Seng, Thomas Berk, Sarah Jinich, Scott W Powers, and Richard B Lipton. Smartphone-based migraine behavioral therapy: a single-arm study with assessment of mental health predictors. *NPJ Digital Medicine*, 2(1):1–9, 2019
19. Scott A Gorenstein, Michael L Castellano, Eric S Slone, Brian Gillette, Helen Liu, Cindy Alsamarraie, Alan M Jacobson, Stephen P Wall, **Samrachana Adhikari**, Jordan L Swartz, et al. Hyperbaric oxygen therapy for COVID-19 patients with respiratory distress: treated cases versus propensity-matched controls. *Undersea Hyperbaric Medicine*, pages 405–413, 2020
20. Harmony R Reynolds, **Samrachana Adhikari**, Claudia Pulgarin, Andrea B Troxel, Eduardo Iturrate, Stephen B Johnson, Anaïs Hausvater, Jonathan D Newman, Jeffrey S Berger, Sripal Bangalore, et al. Renin–angiotensin–aldosterone system inhibitors and risk of COVID-19. *New England Journal of Medicine*, 382(25):2441–2448, 2020

21. **Samrachana Adhikari**, Nicholas P Pantaleo, Justin M Feldman, Olugbenga Ogedegbe, Lorna Thorpe, and Andrea B Troxel. Assessment of community-level disparities in coronavirus disease 2019 (covid-19) infections and deaths in large us metropolitan areas. *JAMA Network Open*, 3(7):e2016938–e2016938, 2020
22. Rebecca Haberman, Jordan Axelrad, Alan Chen, Rochelle Castillo, Di Yan, Peter Izmirly, Andrea Neimann, **Samrachana Adhikari**, David Hudesman, and Jose U Scher. Covid-19 in immune-mediated inflammatory diseases—case series from New York. *New England Journal of Medicine*, 383(1):85–88, 2020
23. Rebecca H Haberman, Rochelle Castillo, Alan Chen, Di Yan, Deborah Ramirez, Vaish Sekar, Robert Lesser, Gary Solomon, Andrea L Neimann, Rebecca B Blank, Peter Izmirly, Dan E Webster, Alexis Ogdie, Andrea B Troxel, **Samrachana Adhikari**, and Jose U Scher. Covid-19 in patients with inflammatory arthritis: a prospective study on the effects of comorbidities and disease-modifying antirheumatic drugs on clinical outcomes. *Arthritis & Rheumatology*, 72(12):1981–1989, 2020
24. Jeffrey S Berger, Dennis Kunichoff, **Samrachana Adhikari**, Tania Ahuja, Nancy Amoroso, Yindalon Aphinyanaphongs, Meng Cao, Ronald Goldenberg, Alexander Hindenburg, James Horowitz, et al. Prevalence and outcomes of D-dimer elevation in hospitalized patients with COVID-19. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 40(10):2539–2547, 2020
25. Tyler C Lewis, **Samrachana Adhikari**, Vasishta Tatapudi, Meredith Holub, Dennis Kunichoff, Andrea B Troxel, Robert A Montgomery, and Daniel H Stermann. A propensity-matched cohort study of tocilizumab in patients with coronavirus disease 2019. *Critical Care Explorations*, 2(11), 2020
26. Mia T Minen, **Samrachana Adhikari**, Jane Padikkala, Sumaiya Tasneem, Ashley Bagheri, Eric Goldberg, Scott Powers, and Richard B Lipton. Smartphone-delivered progressive muscle relaxation for the treatment of migraine in primary care: A randomized controlled trial. *Headache: The Journal of Head and Face Pain*, 60(10):2232–2246, 2020
27. Gbenga Ogedegbe, Joseph Ravenell, **Samrachana Adhikari**, Mark Butler, Tiffany Cook, Fritz Francois, Eduardo Iturrate, Girardin Jean-Louis, Simon A Jones, Deborah Onakomaiya, et al. Assessment of racial/ethnic disparities in hospitalization and mortality in patients with COVID-19 in New York City. *JAMA Network Open*, 3(12):e2026881–e2026881, 2020
28. Mia T Minen, Sarah Corner, Thomas Berk, Valeriya Levitan, Steven Friedman, **Samrachana Adhikari**, and Elizabeth B Seng. Heart rate variability biofeedback for migraine using a smartphone application and sensor: A randomized controlled trial. *General Hospital Psychiatry*, 69:41–49, 2021. ISSN 0163-8343

29. Mia T Minen, Benjamin W Friedman, **Samrachana Adhikari**, Sarah Corner, Scott W Powers, Elizabeth K Seng, Corita Grudzen, and Richard B Lipton. Introduction of a smartphone based behavioral intervention for migraine in the emergency department. *General Hospital Psychiatry*, 69:12–19, 2021. ISSN 0163-8343
30. Peter J Na, **Samrachana Adhikari**, Kristin L Szuhany, Alan Z Chen, Rebecca R Suzuki, Matteo Malgaroli, Donald J Robinaugh, Eric Bui, Christine Mauro, Natalia A Skritskaya, et al. Post traumatic distress symptoms and their response to treatment in adults with prolonged grief disorder. *The Journal of Clinical Psychiatry*, 82(3): 32266, 2021
31. Pasquale E Rummo, Yasemin Algur, Tara McAlexander, Suzanne E Judd, Priscilla M Lopez, **Samrachana Adhikari**, Janene Brown, Melissa Meeker, Leslie A McClure, and Brian Elbel. Comparing competing geospatial measures to capture the relationship between the neighborhood food environment and diet. *Annals of Epidemiology*, 61: 1–7, 2021
32. Efe Kakpovbia, Nkemjika Ugonabo, Alan Chen*, **Samrachana Adhikari**, Oluwatobi A Ogbechie-Godec, Kristen Lo Sicco, and Jerry Shapiro. Impact of laboratory work up and supplementation on alopecia patients: A single-center retrospective chart review. *Journal of Drugs in Dermatology: JDD*, 20(7):807–809, 2021
33. Moriah E Thomason, Ava C Palopoli, Nicki N Jariwala, Denise M Werchan, Alan Chen, **Samrachana Adhikari**, Claudia Espinoza-Heredia, Natalie H Brito, and Christopher J Trentacosta. Miswiring the brain: Human prenatal $\delta 9$ -tetrahydrocannabinol use associated with altered fetal hippocampal brain network connectivity. *Developmental Cognitive Neuroscience*, 51:101000, 2021
34. Saul Blecker, **Samrachana Adhikari**, Hanchao Zhang*, John A Dodson, Sunita M Desai, Lisa Anzisi, Lily Pazand, Antoinette M Schoenthaler, and Devin M Mann. Validation of ehr medication fill data obtained through electronic linkage with pharmacies. *Journal of Managed Care & Specialty Pharmacy*, 27(10):1482–1487, 2021
35. Rania Kanchi, Priscilla Lopez, Pasquale E Rummo, David C Lee, **Samrachana Adhikari**, Mark D Schwartz, Sanja Avramovic, Karen R Siegel, Deborah B Rolka, Giuseppina Imperatore, Brian Elbel, and Lorna E Thorpe. Longitudinal Analysis of Neighborhood Food Environment and Diabetes Risk in the Veterans Administration Diabetes Risk Cohort. *JAMA Network Open*, 4(10):e2130789–e2130789, 10 2021. ISSN 2574-3805
36. Huabin Luo, Bei Wu, Angela R Kamer, **Samrachana Adhikari**, Frank Sloan, Brenda L Plassman, Chenxin Tan, Xiang Qi, and Mark D Schwartz. Oral health, diabetes, and inflammation: Effects of oral hygiene behaviour. *International Dental Journal*, 2021

37. Antoinette Schoenthaler, Franzenith De La Calle, Amanda Soto, Derrel Barrett, Jocelyn Cruz, Leydi Payano, Marina Rosado, **Samrachana Adhikari**, Gbenga Ogedegbe, and Milagros Rosal. Bridging the evidence-to-practice gap: a stepped-wedge cluster randomized controlled trial evaluating practice facilitation as a strategy to accelerate translation of a multi-level adherence intervention into safety net practices. *Implementation Science Communications*, 2(1):1–14, 2021
38. Lorna E Thorpe, **Samrachana Adhikari**, Priscilla Lopez, Rania Kanchi, Leslie A McClure, Annemarie G Hirsch, Carrie R Howell, Aowen Zhu, Farrokh Alemi, Pasquale Rummo, et al. Neighborhood socioeconomic environment and risk of type 2 diabetes: Associations and mediation through food environment pathways in three independent study samples. *Diabetes Care*, 2022
39. Rebecca H Haberman, Ramin Herati, David Simon, Marie Samanovic, Rebecca B Blank, Michael Tuen, Sergei B Koralov, Raja Atreya, Koray Tascilar, Joseph R Allen, Rochelle Castillo, Amber R Cornelius, Paula Rackoff, Gary Solomon, **Samrachana Adhikari**, Natalie Azar, Pamela Rosenthal, Peter Izmirly, Jonathan Samuels, Brian Golden, Soumya M Reddy, Markus F Neurath, Steven B Abramson, Georg Schett, Mark J Mulligan, and Jose U Scher. Methotrexate hampers immunogenicity to BNT162b2 mRNA COVID-19 vaccine in immune-mediated inflammatory disease. *Annals of the Rheumatic Diseases*, 80(10):1339–1344, 2021. ISSN 0003-4967. doi: 10.1136/annrheumdis-2021-220597
40. John A Dodson, Antoinette Schoenthaler, Greg Sweeney, Ana Fonceva, Alicia Pierre, Jonathan Whiteson, Barbara George, Kevin Marzo, Wendy Drewes, Liz Rerisi, Reena Mathew, Haneen Aljayyousi, Sarwat I Chaudhry, Alison M Hajduk, Thomas M Gill, Deborah Estrin, Lara Kovell, Lee A. Jennings, and **Samrachana Adhikari**. Rehabilitation at home using mobile health in older adults after hospitalization for ischemic heart disease: Design of the resilient randomized controlled trial. *JMIR Research Protocols*, 11(3):e32163, 2022
41. Alexandra Ursache, Gabriela R Barajas-Gonzalez, **Samrachana Adhikari**, Dimitra Kamboukos, Laurie M Brotman, and Spring Dawson-McClure. A quasi-experimental study of parent and child well-being in families of color in the context of COVID-19 related school closure. *SSM-Population Health*, page 101053, 2022
42. Rebecca Haberman, Seungha Um, Jordan E Axelrad, Rebecca B Blank, Zakwan Uddin, Sydney Catron, Andrea L Neimann, Mark J Mulligan, Ramin Sedaghat Herat, Simon J Hong, Shannon Chang, Arnold Myrtaj, Ghoncheh Ghiasian, Peter M Izmirly, Amit Saxena, Gary Solomon, Natalie Azar, Jonathan Samuels, Brian D Golden, Paula Rackoff, **Samrachana Adhikari**, David P Hudesman, and Jose U Scher. Methotrexate and TNF inhibitors affect long-term immunogenicity to COVID-19 vaccination in

patients with immune-mediated inflammatory disease. *The Lancet Rheumatology*, 2022

43. Sandra India-Aldana, Rania Kanchi, **Samrachana Adhikari**, Priscilla Lopez, Mark D Schwartz, Brian D Elbel, Pasquale E Rummo, Melissa A Meeker, Gina S Lovasi, Karen R Siegel, et al. Impact of land use and food environment on risk of type 2 diabetes: A national study of veterans, 2008–2018. *Environmental Research*, page 113146, 2022
44. Michael Hadley, Mahdi Nalini, **Samrachana Adhikari**, et al. Spatial environmental factors predict cardiovascular and all-cause mortality: Results of the space study. *Plos one*, 17(6):e0269650, 2022
45. Elizabeth J Klein, Maria Karim, Xiyue Li, **Samrachana Adhikari**, Jerry Shapiro, and Kristen Lo Sicco. Supplementation and hair growth: A retrospective chart review of patients with alopecia and laboratory abnormalities. *JAAD international*, 9:69–71, 2022
46. John A Dodson, Antoinette Schoenthaler, Ana Fonceva, Yasmin Gutierrez, Daichi Shimbo, Darcy Banco, Samuel Maidman, Ekaterina Olkhina, Kathleen Hanley, Carson Lee, Natalie K Levy, and **Samrachana Adhikari**. Study design of better-bp: Behavioral economics trial to enhance regulation of blood pressure. *International Journal of Cardiology Cardiovascular Risk and Prevention*, 15:200156, 2022
47. Kristin L Szuhany, **Samrachana Adhikari**, Alan Chen, Rebecca E Lubin, Emma Jennings, Madeleine Rassaby, Rachel Eakley, Mackenzie L Brown, Rebecca Suzuki, Abigail L Barthel, et al. Impact of preference for yoga or cognitive behavioral therapy in patients with generalized anxiety disorder on treatment outcomes and engagement. *Journal of Psychiatric Research*, 153:109–115, 2022
48. Amrita Mukhopadhyay, **Samrachana Adhikari**, Xiyue Li, John A Dodson, Ian M Kronish, Binita Shah, Maggie Ramatowski, Rumi Chunara, Sam Kozloff, and Saul Blecker. Association between copayment amount and filling of medications for angiotensin receptor neprilysin inhibitors in patients with heart failure. *Journal of the American Heart Association*, 11(24):e027662, 2022
49. Amrita Mukhopadhyay, Nina Talmor, Yuhe Xia, Jeffrey S Berger, Eduardo Iturrate, **Samrachana Adhikari**, Claudia Pulgarin, Adriana Quinones-Camacho, Eugene Yuriditsky, James Horowitz, et al. Sex differences in the prognostic value of troponin and d-dimer in covid-19 illness. *Heart & Lung*, 58:1–5, 2023
50. **Samrachana Adhikari**, Andrea R Titus, Aaron Baum, Priscilla Lopez, Rania Kanchi, Stephanie L Orstad, Brian Elbel, David C Lee, Lorna E Thorpe, and Mark D Schwartz. Disparities in routine healthcare utilization disruptions during covid-19 pandemic

among veterans with type 2 diabetes. *BMC Health Services Research*, 23(1):1–10, 2023

51. Aparna Tiwari, Aradhana Thapa, Nandini Choudhury, Rekha Khatri, Sabitri Sapkota, Wan-Ju Wu, Scott Halliday, David Citrin, Ryan Schwarz, Duncan Maru, ..., **Samrachana Adhikari**, Poshan Thapa, Lal Kunwar, and Sheela Maru. A type ii hybrid effectiveness-implementation study of an integrated chw intervention to address maternal healthcare in rural nepal. *PLOS Global Public Health*, 3(1):e0001512, 2023
52. Tara P McAlexander, Victoria Ryan, Jalal Uddin, Rania Kanchi, Lorna Thorpe, Brian Schwartz, April Carson, Deborah B Rolka, **Samrachana Adhikari**, Jonathan Pollak, et al. Associations between pm2. 5 and o3 exposures and new onset type 2 diabetes in regional and national samples in the united states. *Environmental Research*, page 117248, 2023
53. David C Lee, Stephanie L Orstad, Rania Kanchi, **Samrachana Adhikari**, Pasquale E Rummo, Andrea R Titus, Jose O Aleman, Brian Elbel, Lorna E Thorpe, and Mark D Schwartz. Demographic, social and geographic factors associated with glycaemic control among us veterans with new onset type 2 diabetes: a retrospective cohort study. *BMJ open*, 13(10):e075599, 2023
54. **Samrachana Adhikari**, Amrita Mukhyopadhyay, Samuel Kolzoff, Xiyue Li, Talia Nadel, Cassidy Fitchett, Rumi Chunara, John Dodson, Ian Kronish, and Saul B Blecker. Cohort profile: a large ehr-based cohort with linked pharmacy refill and neighbourhood social determinants of health data to assess heart failure medication adherence. *BMJ open*, 13(12):e076812, 2023
55. Jalal Uddin, Sha Zhu, **Samrachana Adhikari**, Cara M Nordberg, Carrie R Howell, Gargya Malla, Suzanne E Judd, Andrea Cherrington, Pasquale Rummo, Priscilla Lopez, et al. Age and sex differences in the association between neighborhood socioeconomic environment and incident diabetes: Results from the diabetes location, environmental attributes and disparities (lead) network. *SSM-Population Health*, page 101541, 2023
56. Amrita Mukhopadhyay, Saul Blecker, Xiyue Li, Ian M Kronish, Rumi Chunara, Yaguang Zheng, Steven Lawrence, John A Dodson, Sam Kozloff, and **Samrachana Adhikari**. Neighborhood-level socioeconomic status and prescription fill patterns among patients with heart failure. *JAMA network open*, 6(12):e2347519–e2347519, 2023
57. Pasquale E Rummo, Rania Kanchi, **Samrachana Adhikari**, Andrea R Titus, David C Lee, Tara McAlexander, Lorna E Thorpe, and Brian Elbel. Influence of the food environment on obesity risk in a large cohort of us veterans by community type. *Obesity*, 2024

58. Rebecca H Haberman, Tasneem Ahmed, Seungha Um, Ying Yin Zhou, Sydney Catron, Kathryn Jano, Adamary Felipe, Stephanie Eichman, Alexandra L Rice, Eileen Lydon, Sarah Moussavi, Andrea L Neimann, Soumya M Reddy, **Samrachana Adhikari**, and Jose U Scher. Racial and ethnic determinants of psoriatic arthritis phenotypes and disease activity. *Rheumatology*, page keae066, 2024
59. Elianna Shwayder, John A Dodson, Kelly Tellez, Camila Johanek, **Samrachana Adhikari**, Yuchen Meng, Antoinette Schoenthaler, and Lee A Jennings. Goal setting among older adults starting mobile health cardiac rehabilitation in the resilient trial. *Journal of the American Geriatrics Society*, 2024
60. Mukundan Attur, Christopher Petrilli, **Samrachana Adhikari**, Eduardo Iturrate, Xiyue Li, Stephanie Tuminello, Nan Hu, Aravinda Chakravarti, David Beck, and Steven B Abramson. Interleukin-1 receptor antagonist gene (*il1rn*) variants modulate the cytokine release syndrome and mortality of covid-19. *The Journal of Infectious Diseases*, page jiae031, 2024
61. Carine E Hamo, Amrita Mukhopadhyay, Xiyue Li, Yaguang Zheng, Ian M Kronish, Rumi Chunara, John Dodson, **Samrachana Adhikari**, and Saul Blecker. Association between visit frequency, continuity of care, and pharmacy fill adherence in heart failure patients. *American Heart Journal*, 2024
62. Bryana L Schantz, Emma R Toner, Mackenzie L Brown, Nikki Kaiser, Alan Chen, **Samrachana Adhikari**, Susanne S Hoepfner, Eric Bui, Naomi M Simon, and Kristin L Szuhany. Examining the relationship between emotion regulation, sleep quality, and anxiety disorder diagnosis. *Journal of Mood & Anxiety Disorders*, 8:100072, 2024
63. Ria Minawala, Michelle Kim, Olivia Delau, Ghoncheh Ghiasian, Anna Sophia McKenney, Andre Da Luz Moreira, Joshua Chodosh, Mara McAdams-DeMarco, Dorry L Segev, **Samrachana Adhikari**, John Dodson, Aasma Shaukat, Bari Dane, and Adam S Faye. Sarcopenia is a risk factor for postoperative complications among older adults with inflammatory bowel disease. *Inflammatory Bowel Diseases*, page izeae187, 2024
64. Josh Aleksanyan, Sugy Choi, Patricia Lincourt, Constance Burke, Kelly S Ramsey, Shazia Hussain, Ashly E Jordan, Maria Morris, Thomas D'Aunno, Sherry Glied, et al. Lost in transition: A protocol for a retrospective, longitudinal cohort study for addressing challenges in opioid treatment for transition-age adults. *Plos one*, 19(8): e0297567, 2024
65. Magdalena Cerdá, Katherine Wheeler-Martin, Emilie Bruzelius, Christine M Mauro, Stephen Crystal, Corey S Davis, **Samrachana Adhikari**, Julian Santaella-Tenorio, Katherine M Keyes, Kara E Rudolph, et al. The role of prescription opioid and cannabis supply policies on opioid overdose deaths. *American journal of epidemiology*, page kwae210, 2024

66. Candace M. Raio, Kristin L. Szuhany, Aysu Secmen, Alexandra M. Mellis, Alan Chen, **Samrachana Adhikari**, Matteo Malgaroli, Carly D. Miron, Emma Jennings, Naomi M. Simon, and Paul W. Glimcher. Factors associated with loneliness, depression, and anxiety during the early stages of the covid-19 pandemic. *Stress and Health*, 40(5): e3473, 2024
67. Jeff Zhang, Rania Kanchi, Sarah Conderino, Natalie K. Levy, **Samrachana Adhikari**, Saul Blecker, Nichola Davis, Jasmin Divers, Catherine Rabin, Mark Weiner, Lorna Thorpe, and John A. Dodson. Decline in use of high-risk agents for tight glucose control among older adults with diabetes in new york city: 2017–2022. *Journal of the American Geriatrics Society*, 72(9):2721–2729, 2024. doi: <https://doi.org/10.1111/jgs.19060>
68. John A Dodson, **Samrachana Adhikari**, Antoinette Schoenthaler, Judith S Hochman, Greg Sweeney, Barbara George, Kevin Marzo, Lee A Jennings, Lara C Kovell, Matthew Vorsanger, et al. Rehabilitation at home using mobile health for older adults hospitalized for ischemic heart disease: The resilient randomized clinical trial. *JAMA Network Open*, 8(1):e2453499–e2453499, 2025
69. Yaguang Zheng, **Samrachana Adhikari**, Xiyue Li, Yunan Zhao, Amrita Mukhopadhyay, Carine E Hamo, Tyrel Stokes, and Saul Blecker. Association between video-based telemedicine visits and medication adherence among patients with heart failure: Retrospective cross-sectional study. *JMIR cardio*, 8:e56763, 2024
70. Saul Blecker, Yunan Zhao, Xiyue Li, Ian M Kronish, Amrita Mukhopadhyay, Tyrel Stokes, and **Samrachana Adhikari**. Approach to estimating adherence to heart failure medications using linked electronic health record and pharmacy data. *Journal of General Internal Medicine*, pages 1–7, 2024
71. Lara C Kovell, Victoria Bothwick, Paul McCabe, Stephen P Juraschek, Yuchen Meng, Ritika Revoori, Stephanie Pena, Antoinette Schoenthaler, **Samrachana Adhikari**, and John A Dodson. Patterns of adherence to home blood pressure monitoring among older adults with ischemic heart disease: An analysis from the resilient trial of mobile health cardiac rehabilitation. *Journal of Cardiopulmonary Rehabilitation and Prevention*, pages 10–1097, 2024
72. Carine E Hamo, Xiyue Li, Chiadi E Ndumele, Amrita Mukhopadhyay, **Samrachana Adhikari**, and Saul Blecker. Association between cardiometabolic comorbidity burden and outcomes in heart failure. *Journal of the American Heart Association*, page e036985, 2024
73. Darcy Banco, Rania Kanchi, Jasmin Divers, **Samrachana Adhikari**, Andrea Titus, Nichola Davis, Jenny Uguru, Parampreet Bakshi, Annie George, Lorna E Thorpe,

and John Dodson. Effect of covid-19 pandemic related healthcare disruption on hypertension control: A retrospective analysis of older adults with multiple chronic conditions in new york city. *American Journal of Hypertension*, 38(5):313–320, 02 2025. ISSN 1941-7225. doi: 10.1093/ajh/hpaf013. URL <https://doi.org/10.1093/ajh/hpaf013>

74. Lorna E Thorpe, Yuchen Meng, Sarah Conderino, **Samrachana Adhikari**, Stefanie Bendik, Mark Weiner, Cathy Rabin, Melissa Lee, Jenny Uguru, Jasmin Divers, et al. Covid-related healthcare disruptions among older adults with multiple chronic conditions in new york city. *BMC health services research*, 25(1):340, 2025
75. Stephanie L Orstad, Priscilla M D’antico, **Samrachana Adhikari**, Rania Kanchi, David C Lee, Mark D Schwartz, Sanja Avramovic, Farrokh Alemi, Brian Elbel, and Lorna E Thorpe. Effects of the leisure-time physical activity environment on odds of glycemic control among a nationwide cohort of united states veterans with a new type-2 diabetes diagnosis. *Preventive Medicine*, page 108274, 2025
76. Rebecca H Haberman, Kyra Chen, Catherine Howe, Seungha Um, Adamary Felipe, Brianna Fu, Stephanie Eichman, Margaret Coyle, Eileen Lydon, Andrea L Neimann, et al. Burden and determinants of multi-b/tsdmard failure in psoriatic arthritis. *Arthritis Research & Therapy*, 27(1):46, 2025
77. Sharon Klein, Amrita Mukhopadhyay, Carine E Hamo, Xiyue Li, **Samrachana Adhikari**, and Saul Blecker. Accuracy of electronic health record-based definitions for patients with heart failure. *The American Journal of Medicine*, 2025
78. Samantha M Doonan, Spruha Joshi, Sugy Choi, **Samrachana Adhikari**, Corey S Davis, and Magdalena Cerdá. Examining the association between county racialised economic segregation and fatal overdose in us counties, 2018–2022. *J Epidemiol Community Health*, 2025
79. Amrita Mukhopadhyay, Nathalia Ladino, Tyrel Stokes, Aparna Narendrula, Stuart D Katz, Harmony R Reynolds, Allison P Squires, Rishi K Wadhera, Donglan Stacy Zhang, **Samrachana Adhikari**, et al. Impact of heart failure guideline publication on medicare drug coverage policies: A quasi-experimental analysis. *Journal of the American Heart Association*, page e043610, 2025
80. Andrea R Titus, Rania Kanchi, **Samrachana Adhikari**, Lorna E Thorpe, David C Lee, Aaron Baum, and Mark D Schwartz. Time-varying associations between diabetes and mortality following covid-19: Evidence from a us veteran population. *PLoS One*, 20(10):e0333052, 2025
81. Elianna M Shwayder, John A Dodson, **Samrachana Adhikari**, Eleonore V Grant, Antoinette M Schoenthaler, Stephanie Pena, Yuchen Meng, and Lee A Jennings.

Goal attainment among older adults with ischemic heart disease using mobile-health cardiac rehabilitation in resilient. *JACC: Advances*, page 102298, 2025

82. John A Dodson, **Samrachana Adhikari**, Antoinette M Schoenthaler, Daichi Shimbo, Adam N Berman, Natalie Levy, Kathleen Hanley, Safiya Richardson, Ashwini Varghese, Yuchen Meng, et al. Behavioral economics and medication adherence for hypertension: A randomized clinical trial. *Journal of the American College of Cardiology*, 2025
83. Souptik Barua, Dhairya Upadhyay, Stephanie Pena, Riley McConnell, Ashwini Varghese, **Samrachana Adhikari**, Erik LeRoy, Antoinette Schoenthaler, and John A Dodson. Adherence to accelerometer use in older adults undergoing mhealth cardiac rehabilitation: Secondary analysis of a randomized clinical trial. *Journal of Medical Internet Research*, 27:e80522, 2025
84. Sarah Conderino, John A Dodson, Yuchen Meng, Rania Kanchi, Nichola Davis, Andrew Wallach, Theodore Long, Stan Kogan, Karyn Singer, Hannah Jackson, et al. Covid-related healthcare disruptions and impacts on chronic disease management among patients of the new york city safety-net system. *Journal of General Internal Medicine*, pages 1–9, 2025
85. Sarah Keltz, Lindsey Quintana, Kristin L Szuhany, **Samrachana Adhikari**, Alberta Twi-Yeboah, Amanda W Baker, Sat Bir S Khalsa, Elizabeth Hoge, Eric Bui, Susanne S Hoepfner, et al. Impact of homework engagement on treatment response to group cognitive-behavioral therapy, yoga, and stress education for generalized anxiety disorder. *Cognitive behaviour therapy*, pages 1–12, 2025
86. Caitlin A Kearney, Anna L Brinks, Carli D Needle, **Samrachana Adhikari**, Douglas K Marks, Jerry Shapiro, Ian W Tattersall, Kristen I Lo Sicco, and Mario E Lacouture. Adverse effects of scalp cooling for the reduction of chemotherapy-induced alopecia: A systematic review and meta-analysis. *Breast Cancer Research and Treatment*, 215(1):11, 2026
87. Amrita Mukhopadhyay, **Samrachana Adhikari**, Xiyue Li, Dhruv S Kazi, Adam N Berman, Ian Kronish, Carine Hamo, John A Dodson, Rumi Chunara, Nathalia Ladino, et al. Prior authorization requirements and prescription fill patterns among patients with heart failure. *JACC: Advances*, 5(2):102583, 2026
88. Andrew Adelsheimer, Michael Hoffer-Hawlik, Nathalia Ladino, **Samrachana Adhikari**, Donglan Stacy Zhang, Allison P. Squires, Adam N Berman, Stuart D. Katz, Harmony R. Reynolds, Saul Blecker, et al. Association between medicare drug plan ratings and coverage barriers for non-generic, evidence-based cardiovascular medications. *Circulation: Population Health and Outcomes*, page e012422, 2026

89. Nandini Choudhury, Wan-Ju Wu, Rekha Khatri, Aparna Tiwari, Aradhana Thapa, **Samrachana Adhikari**, Indira Basnett, Ved Bhandari, Aasha Bhatta, Bhawana Bogati, et al. “now that they come to our doorsteps to teach us these things...”—postpartum contraception outcomes from a pre-post effectiveness-implementation study of an integrated community health worker intervention in rural nepal. *Reproductive Health*, 2025
90. Amrita Mukhopadhyay, Yunan Zhao, Rumi Chunara, Ian Kronish, Steven Lawrence, Saul Blecker, and **Samrachana Adhikari**. The importance of clinical context in evaluating algorithmic fairness: Insights from a medication adherence prediction algorithm. *Journal of the American Medical Informatics Association*, In press
91. Shreya Kamojjala, **Samrachana Adhikari**, Yuchen Meng, Greg Sweeney, Pavel Placido, Jonathan Whiteson, Erik LeRoy, Alicia Pierre, Andrea B Troxel, Lara C Kovell, et al. Burden of residual angina among older adults with ischemic heart disease in the united states: Findings from the resilient trial. *Circulation: Population Health and Outcomes*, page e013157, 2026
92. Sharon Klein, Amrita Mukhopadhyay, Carine E Hamo, **Samrachana Adhikari**, Lipika Samal, and Saul Blecker. Challenges in identifying heart failure diagnoses from the electronic health record. *Journal of Cardiac Failure-Intersections*, 2026
93. Nina Abukahok, Steven Lawrence, **Samrachana Adhikari**, Samuel T Wilkinson, and Joseph J Palamar. Monitoring of clinics that use direct-to-consumer advertising for off-label ketamine in the new york metropolitan area: A cross-sectional systematic web search. *Fundamental & clinical pharmacology*, 40(4):e70095, 2026

Book Chapters

94. Tracy M Sweet and **Samrachana Adhikari**. Modeling of network structures. In Robert J Tierney, Fazal Rizvi, and Kadriye Ercikan, editors, *International Encyclopedia of Education (Fourth Edition)*, pages 430–440. Elsevier, Oxford, fourth edition, 2023. ISBN 978-0-12-818629-9

Pre-prints and Non Peer-reviewed Publications

95. Jacob Spertus, **Samrachana Adhikari**, and Sharon-Lise Normand. Regularization and hierarchical prior distributions for adjustment with health care claims data: Rethinking comorbidity scores. *arXiv preprint arXiv:1711.05243*, 2017
96. **Samrachana Adhikari** and Nicholas Pantaleo. Review 2:” the unequal burden of the COVID-19 pandemic: Racial/ethnic disparities in US cause-specific mortality”. *Rapid Reviews COVID-19*, 2021

97. Antonio D'Alessandro, **Samrachana Adhikari**, and Michele Santacatterina. Causal survival analysis in platform trials with non-concurrent controls. *arXiv preprint arXiv:2603.10989*, 2026
98. Dongkyu Cho, Xiyue Li, **Samrachana Adhikari**, and Rumi Chunara. Tree of concepts: Interpretable continual learners in non-stationary clinical domains. *arXiv preprint arXiv:2604.17089*, accepted Machine Learning in Health Care Conference
99. Tyrel Stokes, Hyungrok Do, Saul Blecker, Rumi Chunara, and **Samrachana Adhikari**. Domain adaptation under mnar missingness. *arXiv*, (Revise & resubmit Statistics in Medicine)

Research Publications without Named Authorship

100. Amit Saxena, Allison Guttman, Mala Masson, Mimi Y Kim, Rebecca H Haberman, Rochelle Castillo, Jose U Scher, Kristina K Deonaraine, Alexis J Engel, H Michael Belmont, and others on behalf of the NYU WARCOV Investigators. Evaluation of SARS-CoV-2 IgG antibody reactivity in patients with systemic lupus erythematosus: analysis of a multi-racial and multi-ethnic cohort. *The Lancet Rheumatology*, 3(8): e585–e594, 2021 [Participated as a member of the WARCOV investigators]

Software & code: R packages - publicly available at CRAN

1. Primary author and maintainer of HLSP: “Hierarchical Latent Space Network Model”
2. Co-author of CIDnetworks

Abstracts

1. Mia T Minen, Jane Padikkala, Sumaiya Tasneem, **Samrachana Adhikari**, Ashley Bagheri, Thomas Berk, Sarah Jinich, Scott Powers, Elizabeth Seng, Mary Ann Se-vick, et al. Feasibility and acceptability of smartphone based migraine behavioral therapy in the headache clinic: A single arm study. In *Journal of Neuropsychiatry and Clinical Neurosciences*, volume 31, pages E19–E19. Amer Psychiatric Publishing, Inc 800 Maine Ave SW, Suite 900, Washington, DC, 2019
2. Michael Hadley, Mahdi Nalini, **Samrachana Adhikari**, Jackie Szymonifka, Arash Etemadi, Farin Kamangar, Masoud Khoshnia, Jesse McChane, Akram Pourshams, Hossein Poustchi, et al. Spatial risk factors impact cardiovascular mortality: Analysis from the goleston cohort study. *Circulation*, 140(Suppl_1):A13476–A13476, 2019
3. Peter Na, **Samrachana Adhikari**, Alan Chen, Kristin Szuhany, Rebecca Suzuki, Matteo Malgaroli, Don Robinaugh, Eric Bui, Christine Mauro, Sidney Zisook, et al. Traumatic distress symptom clusters in complicated grief: Response to treatment. In *Neuropsychopharmacology*, volume 44, pages 84–85. Nature Publishing Group Macmillan Building, 4 Crinan St, London N1 9xw, England, 2019

4. Rebecca Haberman, **Samrachana Adhikari**, Deborah Ramirez, Eileen Lydon, Malavika Attur, Bruno Lovisi, Soumya Reddy, Andrea Neimann, Andrea Troxel, and Jose Scher. Assessing risk of psa progression: Results from a combined psoriasis-psa center cohort. In *Arthritis & Rheumatology*, volume 71. Wiley 111 River St, Hoboken 07030-5774, NJ USA, 2019
5. Mia Minen, **Samrachana Adhikari**, Jane Padikkala, Ashley Bagheri, Eric Goldberg, Sarah W Powers, and Richard B Lipton. Smartphone delivered progressive muscle relaxation (RELAXaHEAD) for the treatment of migraine in primary care: A pilot randomized controlled study. In *Headache*, volume 60, pages 48–48. Wiley 111 River St, Hoboken 07030-5774, NJ USA, 2020
6. Nina Talmor, Amrita Mukhopadhyay, Yuhe Xia, **Samrachana Adhikari**, Claudia Pulgarin, Eduardo Iturrate, Leora I Horwitz, Judith S Hochman, Jeffrey S Berger, Glenn I Fishman, et al. Sex differences in myocardial injury and outcomes of COVID-19 infection. *Circulation*, 142(Suppl_3):A16449–A16449, 2020
7. Rania Kanchi, Priscilla M Lopez, Pasquale E Rummo, David C Lee, **Samrachana Adhikari**, Mark D Schwartz, Sanja Avramovic, Karen R Siegel, Deborah B Rolka, Giuseppina Imperatore, et al. 1109-p: The effect of neighborhood food environment on diabetes risk: A multilevel analysis of the veterans administration diabetes risk cohort. *Diabetes*, 70(Supplement_1), 2021
8. Azizi Seixas, Nicholas Pantaleo, **Samrachana Adhikari**, Michael Grandner, and Giardin Jean-Louis. 694 insufficient sleep linked with higher COVID-19 infection cases and deaths in the united states. *Sleep*, 44(Suppl 2):A271, 2021
9. Chenxin Tan, Brenda Plassman, Frank Sloan, Mark Schwartz, **Samrachana Adhikari**, Xiang Qi, Bei Wu, and Huabin Luo. Effects of the co-occurrence of diabetes and tooth loss on cognitive function. *Innovation in Aging*, 5(Suppl 1):207–207, 2021
10. Chenxin Tan, Brenda Plassman, Frank Sloan, Mark Schwartz, **Samrachana Adhikari**, Angela Kamer, Huabin Luo, and Bei Wu. Diabetes mellitus, edentulism, and trajectory of cognitive decline among older adults. *Innovation in Aging*, 5(Suppl 1): 206–206, 2021
11. Huabin Luo, Frank Sloan, Brenda Plassman, **Samrachana Adhikari**, Mark Schwartz, Xiang Qi, Bei Wu, and Chenxin Tan. The impact of diabetes and edentulism on all-cause mortality: Racial and ethnic disparities. *Innovation in Aging*, 5(Suppl 1): 206–207, 2021
12. Eleonore V Grant, Kun Qian, **Samrachana Adhikari**, Yasmin Guttierrez, Daichi Shimbo, Natali Levy, Anamarija Fonceva, and John A Dodson. Using latent class analysis to

identify antihypertensive adherence trajectories: The better-bp trial. *Circulation*, 146 (Suppl_1):A9445–A9445, 2022

13. Samuel D Maidman, **Samrachana Adhikari**, Natalie Levy, Carson Lee, Kathleen Hanley, Daichi Shimbo, Yasmin Gutierrez, Stefany de Brito, Kun Qian, Anamarija Foncova, et al. Abstract p012: Agreement in same day research-quality and casual systolic blood pressure measurements: Insights from better-bp. *Hypertension*, 79(Suppl_1): AP012–AP012, 2022
14. Lara Kovell, Paul McCabe, Stephen Paul Juraschek, Manuel Vazquez Sanchez, Victoria Bothwick, Wenqing Yang, Kelly Tellez, Stephanie Pena, Antoinette Schoenthaler, **Samrachana Adhikari**, et al. Patterns of adherence to home blood pressure monitoring in the resilient trial of mobile cardiac rehabilitation in older adults. *Journal of the American College of Cardiology*, 81(8_Supplement):1882–1882, 2023
15. Amrita Mukhopadhyay, Saul Blecker, Xiyue Li, Ian Matthew Kronish, John A Dodson, Steven Lawrence, Yaugang Zheng, Sam Kozloff, Rumi Chunara, and **Samrachana Adhikari**. Neighborhood-level socioeconomic status and prescription fill patterns for guideline directed medical therapy among patients with heart failure. *Journal of the American College of Cardiology*, 81(8_Supplement):275–275, 2023

Media Appearances

1. 2024, Neighborhoods Influence Whether or Not Folks Take Their Heart Failure Meds. U.S. News.
2. 2020, In Atlanta, A Wave of coronavirus deaths and the questions left in its wake. NPR.
3. 2020, Even in wealthy areas of the U.S., people of color are more likely to get and die from coronavirus, study says. TIME.
4. 2020, Black and Hispanic Americans living in poor areas are eight times more likely to catch coronavirus and die of the infection - and those living in rich neighborhoods still face a three-fold higher risk than white people. Daily Mail.
5. 2020, Income doesn't explain COVID-19's racial disparities. Global Health Now.
6. 2020, Inspirational Women in STEM and Tech: "To change the status quo we need to prioritize policies that will help cultivate a healthy environment" With Dr. Samrachana Adhikari of NYU Grossman School of Medicine, Authority Magazine.

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