

Chad Stecher

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Arizona State University
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Professional Positions

Assistant Professor, Arizona State University
College of Health Solutions, August 2019 – present

Assistant Professor, Rensselaer Polytechnic Institute
Department of Economics, August 2017 – July 2019

Education

Ph.D. in Economics, University of California, Los Angeles, 2017
M.A. Economics, University of California, Los Angeles, 2012
B.A. in Economics and Mathematics, Colby College, 2008

Publications

Stecher, C. & Ketcham, J. 2022. “Learning to work together: Productivity gains from shared experience among cardiology teams.” *American Journal of Health Economics* (forthcoming)

Zhang, A., Boronowsky, R., Braverman, I., **Stecher, C.**, Cleveland, D., Garnett, E., Wang, M. & Jay, J. 2022. “Using the Default Nudge to Increase Plant-based Meal Consumption on College Campuses.” *Current Developments in Nutrition*; 6 (1): 84.

Martin, J., Kisana, H., Hui, C., **Stecher, C.** & Hustedt J. 2022. “Complications Associated with Anesthetic Choice for Elective Foot and Ankle Surgery.” *Foot & Ankle Orthopaedics*; 7.1: 2473011421S0034.

Hui, C., Kisana, H., Martin, J., **Stecher, C.** & Hustedt J. 2022. “Trends in Medicare Physician and Facility Fee Reimbursement in Orthopedic Foot and Ankle.” *Foot & Ankle Orthopaedics*; 7.1: 2473011421S00254.

Kisana, H., Hui, C., Martin, J., **Stecher, C.** & Hustedt, J. 2021. “Development of a Risk Stratification Scoring System to Predict General Surgical Complications in Foot and Ankle Surgery Patients.” *Orthopedics*; 45 (3): 139-144.

Abashidze, N., **Stecher, C.**, Rosenkrantz, A., Duszak, R. & Hughes, D. 2021. “Racial and Ethnic Disparities in the Use of Prostate MRI Following an Elevated Prostate-Specific Antigen Test.” *JAMA Network Open*; 4 (11): e2132388 – e2132388.

Stecher, C., Sullivan, M. & Huberty, J. 2021. “Using Personalized Anchors to Establish Routine Meditation Practice with a Mobile App: Randomized Controlled Trial.” *JMIR mHealth and uHealth*; 9 (12): e32794.

Stecher, C., Everhart, A., Smith, L., Jena, A., Ross, J., Desai, N., Shah, N. & Karaca-Mandic, P. 2021. “Physician Network Connections Associated with Faster De-Adoption of Dronedrone for Permanent Atrial Fibrillation.” *Circulation: Cardiovascular Quality and Outcomes*; 14 (10): e008040.

Adams, M., Todd, M., Angadi, S., Hurley, J., **Stecher, C.**, Berardi, V., Phillips, C., McEntee, M., Hovell, M. & Hooker, S. 2021. “Adaptive Goals and Reinforcement Timing to Increase Physical Activity in Adults: A Factorial Randomized Trial” *American Journal of Preventive Medicine*; 62 (2): e57 – e68.

Wagner, Z., **Stecher, C.**, Saya, U. & Linnemayr, S. 2021. “The impact of the COVID-19 pandemic on use of HIV care, antiretroviral therapy adherence, and viral suppression An observational cohort study from Uganda.” *JAIDS*; 88 (5): 448.

Stecher, C., Fowers, R., Christ, J., Berardi, V., Chung, Y. & Huberty, J. 2021. “Identifying App-Based Meditation Habits and the Associated Mental Health Benefits: Longitudinal Observational Study.” *JMIR: Journal of Medical Internet Research*; 23 (11): e27282.

Keister, L., **Stecher, C.**, Aronson, B., McConnell, W., Hustedt, J. & Moody, M. 2021. “Provider Bias in prescribing opioid analgesics: a study of electronic medical Records at a Hospital Emergency Department.” *BMC Public Health*; 21(1): 1 – 9.

Stecher, C., Mukasa, B., Linnemayr, S. 2021. “Uncovering a Behavioral Strategy for Establishing New Habits: Evidence from Incentives for Medication Adherence in Uganda.” *Journal of Health Economics*; 77: 102443.

Stecher, C. 2021. “Physician Network Connections to Specialists and HIV Quality of Care” *Health Services Research*; 56 (5): 908 – 918.

Stecher, C. & Linnemayr, S. 2021. “Promoting antiretroviral therapy adherence habits: a novel approach based on a synthesis of economic and psychological theories of habit formation” *AIDS*; 35 (5): 711–716.

Bhuiyan, N., Puzia, M., **Stecher, C.** & Huberty, J. 2021. “Associations Between Rural-Urban Status, Health Outcomes and Behaviors, and COVID-19 Perceptions Among Meditation App Users: A Longitudinal Survey” *JMIR mHealth and uHealth*; 9 (5): e26037.

Huberty, J., Puzia, M., Green, J. & **Stecher, C.** 2021. “Mental health and meditation practices of pregnant women during COVID-19.” *Obstetrics and Gynecology Research*; 4: 1-6.

Koskan, A., Klasko-Foster, L., **Stecher, C.**, Rodriguez, S., Helitzer, D. & Yoo W. 2021. “Human papillomavirus (HPV) vaccine guideline adherence among Arizona’s Medicaid beneficiaries” *Vaccine*; 39(4): 682–686.

Huberty, J., Green, J., Puzia, M. & **Stecher, C.** 2021. “Evaluation of Mood Check-in Feature for Participation in Meditation Mobile App Users: Retrospective Longitudinal Analysis.” *JMIR mHealth and uHealth*; 9(4): e27106.

Green, J., Huberty, J., Puzia, M. & **Stecher, C.** 2021. “The Effect of Meditation and Physical Activity on the Mental Health Impact of COVID-19–Related Stress and Attention to News Among Mobile App Users in the United States: Cross-sectional Survey.” *JMIR Mental Health*, 8(4): e28479.

Linnemayr S., **Stecher C.**, Saya U., et al. 2020. “Behavioral Economics Incentives to Support HIV Treatment Adherence (BEST): Protocol for a randomized controlled trial in Uganda.” *Trials*; 21(1): 1–13.

Koskan, A., **Stecher, C.**, Helitzer, D. 2020. “College males’ behaviors, intentions, and influencing factors related to vaccinating against HPV.” *Human Vaccines and Immunotherapeutics*; 17(4): 1044–1051.

Linnemayr, S. & **Stecher, C.** 2017. “Behavioral Economic Incentives to Improve Adherence to Antiretroviral (ARV) Medication: Early Evidence from a Randomized Controlled Trial in Uganda.” *AIDS*; 31(5): 719 – 26.

Linnemayr, S. & **Stecher, C.** 2015. “Behavioral Economics Matters for HIV Research: The Impact of Behavioral Biases on Adherence to Antiretrovirals (ARVs).” *AIDS and Behavior*; 19(11): 2069 – 75.

Datar, A., Liu, J., Linnemayr, S. & **Stecher, C.** 2013. “The Impact of Natural Disasters on Child Health and Investments in Rural India.” *Social Science & Medicine*; 76(1): 83 – 91.

Currently Under review

McCullough, M. & **Stecher, C.** “Associations between provider financial models and use of health information exchange (HIE): Are alternative payment models associated with increased uptake of HIE?” *American Journal of Managed Care (R & R submitted)*

Fowers, R., Berardi, V., Huberty, J. & **Stecher, C.** “Using Mobile Meditation App Data to Predict Future App Engagement: An Observational Study.” *JAMIA: Journal of the American Medical Informatics Association (R & R submitted)*

Sullivan, M., Huberty, J., Chung, Y. & **Stecher, C.** “Mindfulness Meditation App Abandonment During the COVID-19 Pandemic: An Observational Study.” *Mindfulness (R & R submitted)*

Stecher, C., Palimaru, A., Odiit, M., Lunkuse, L., Walukaga, S. & Linnemayr, S. “Barriers and facilitators of antiretroviral therapy (ART) adherence habit formation in Sub-Saharan Africa: Evidence from a qualitative study in Kampala, Uganda” *Social Science & Medicine (R & R submitted)*

Stecher, C., Chen, C., Codella, J. & Hendler, J. “Promoting Contextually Cued Physical Activity Habits: A Pilot Study Using Cue-Contingent Financial Incentives for Daily Walking” *Annals of Behavioral Medicine*

Stecher, C., Ghai, I., Lunkuse, L., Wabukala, P., Odiit, M., Nakanwagi, A. & Linnemayr, S. “Incentives and ReMINDers to Improve Long-term Medication Adherence (INMIND): Protocol for a Pilot Randomized Controlled Trial in Uganda” *JMIR Research Protocols*

Leischow, S., Okamoto, J., Warner, M., Twesten, J., **Stecher, C.**, Valente, T. & Parascandola, M. “Mapping the African Tobacco Control Network.” *Tobacco Control*

Linnemayr, S., Wagner, Z., Saya, U., **Stecher, C.**, Lunkuse, L., Wabukala, P., Odiit, M. & Mukasa, B. “Behavioral economic incentives to support ART adherence, clinic attendance, and viral suppression: Results from a randomized controlled trial in Uganda” *Lancet HIV*

Stecher, C., Cloonan, S., Linnemayr, S. & Huberty, J. “Combining Behavioral Economics-Based Incentives with the Anchoring Strategy: Protocol for a Randomized Controlled Trial” *JMIR Research Protocols*

Stecher, C., Pfisterer, B., Harden, S., Epstein, D., Hirschmann, J., Wunsch, K. & Buman, M. “Assessing the Pragmatic Nature of mHealth Interventions Promoting Physical Activity: A Systematic Review and Meta-Analysis.” *International Journal of Behavioral Nutrition and Physical Activity*

Hustedt, J., **Stecher, C.**, Hui, C., Martin, J., Ruan, E. & Kisana, H. “Constructing a Crosswalk Between the Diverse Patient-Reported Outcome Measures in Orthopaedics.”

Works in Progress

Stecher, C. & Ketcham, J. “Reducing racial disparities through experience: Evidence from medical device choice in cardiac catheterization labs.”

Stecher, C., Linnemayr, S. & Huckfeldt, P. “Estimating the Healthcare Cost Savings from Improved Medication Adherence across Chronic Conditions.”

Stecher, C., Pagni, B., Cloonan, S., Vink, S. & Braden, B. “Using Anchoring to Establish Meditation Habits and Improve Depressive Symptoms in Autistic Adults.”

Berardi, V., Stecher, C., Fowers, R. & Rubin, G. “Time of Day Preferences and Temporal Consistency Predict Sustained Use of a Commercial Meditation App.”

Fowers, R., Berardi, V., Cloonan, S., Huberty, J. & **Stecher, C.** “What Does a Self-Reported Habit Signal? Comparing Self-Reported Habit Strength With Objective Meditation App Usage Data.”

Ofori, E., Vaillancourt, D., Greig-Custo, M., Barker, W., Hanson, K., DeKosky, S., Garnva, C., Adjoudi, M., Golde, T., Loewenstein, D., **Stecher, C.**, Fowers, R. & Duara, R. “Free-water Imaging Reveals Unique Microstructure in Hispanic Individuals with Dementia”

Berardi, V., Phillips, C., McEntee, M., **Stecher, C.**, Todd, M. & Adams, M. “Does Delay Discounting Moderate or Mediate the Effects of Immediate Financial Incentives for Increasing Adults’ Physical Activity in a Year-Long Intervention?”

Rajendra, S., **Stecher, C.**, Chartrand, N., Rosenkrantz, A., Duszak, R. & Hughes, D. “Examining Racial and Ethnic Disparities in Prostate Cancer Testing Procedures”

Cloonan, S., Fowers, R., Huberty, J. & **Stecher, C.** “Did Meditation Habits Protect Mental Health During COVID? An Observational Study.”

Sullivan, M., Cloonan, S., Huberty, J. & **Stecher, C.** “What Predicts App Engagement? The Association Between Motivation Measures and Meditation App Use Among New Subscribers.”

Sponsored Research

Co-I with PI Dr. Sebastian Linnemayr and Co-I Dr. Sarah MacCarthy. 2020 – *present*

INcentives and ReMINDers to Improve Long-term Medication Adherence (INMIND);
NIMH: R34 MH122331

Co-I with Dr. Christopher Wharton. 2022 – *present*

Towards a KAITEKI Future: Global Health and Food Systems Sustainability in the era of Global Disruption; Kaiteki Foundation

Co-PI with Dr. Jennifer Huberty. 2020 – 2021

Mindfulness Takes Practice: Optimizing mHealth Tools for Building Persistent Mindfulness Meditation Habits; CHS COVID Jumpstart Grant

Co-I with PI Dr. J. Mac McCullough. 2020 – 2021

Physicians’ Use, Exchange, and Evaluation of Electronic Medical Records; Arizona Health Care Cost Containment System (AHCCCS)

Faculty Adviser with PI Dr. Vincent Berardi. 2020 – 2022

Identifying the Formation and Functionality of Healthy Behavioral Habits Using Longitudinal mHealth Data; Chapman University Internal Research Grant

Co-I with PI Dr. Sebastian Linnemayr, RAND Corporation. 2017 – *present*

Behavioral Economics Incentives to Support HIV Treatment Adherence in Sub-Saharan Africa (BEST);
NIMH: R01 MH110350

PI with Co-Is Drs. Jim Hendler and Mohammed Zaki, RPI, 2018 – 2019

Targeting Habit Formation Through a Smartphone Application; FY2018 KIP Award #141535 1092

Graduate Research Assistant for PI Dr. Sebastian Linnemayr, RAND Corporation. 2012 – 2017

Variable Rewards Incentives for ART Adherence in Uganda; NIMH: R34 MH096609

Teaching Experience

Instructor, Arizona State University

Economics for Health Majors (Undergraduate): 1 semester

Health Economics (Masters): 4 semesters

Instructor, Rensselaer Polytechnic Institute

Behavioral Economics (Undergraduate/Graduate): 4 semesters

Econometric Methods for Big Data (Undergraduate/Graduate): 2 semesters

Teaching Assistant, University of California, Los Angeles

Econometrics (Undergraduate): 1 quarter

Intermediate Microeconomics Theory (Undergraduate): 1 quarter

Principles of Microeconomics (Undergraduate): 1 quarter

Presentations

- 2022 American Society of Health Economics, 11th Annual Conference
- 2022 The Center for Health Information and Research (CHiR) Seminar Series
- 2021 Western Economic Association International, 96th Annual Conference
- 2021 American Society of Health Economics, 10th Annual Conference
- 2021 Society of Behavioral Medicine 42nd Annual Meeting & Scientific Sessions
- 2020 Triangle Health Economics Workshop, UNC - Chapel Hill
- 2020 American Society of Health Economics, 9th Annual Conference
- 2019 Southern Economic Association, 89th Annual Meeting
- 2019 International Health Economics Association, Basel 2019 Congress
- 2019 Western Economic Association International, 94th Annual Conference
- 2018 6th Workshop in Behavioral and Experimental Health Economics, University of Oslo
- 2018 Department of Economics, SUNY-Albany
- 2018 Department of Economics, SUNY-Buffalo
- 2017 Institute for Healthcare Delivery Science Seminar Series, Ichan School of Medicine at Mount Sinai
- 2017 Rockefeller Institute of Government, SUNY-Albany
- 2017 Cancer Research Group (CARGO), RPI
- 2017 RPI-IBM Center for Health Empowerment by Analytics, Learning, and Semantics (HEALS), RPI

Service

College of Health Solutions

Director of Health Systems Faculty Search Committee; Member, 2021 – 2022

Science of Health Care Delivery, Strategic Initiatives Committee; Member, 2020 – present

Science of Health Care Delivery, Master's Curriculum Committee Member, 2021 – present

CHS Ph.D. Programs, 2020 – present

Biomedical Informatics Program: Chair (1) Ph.D. Dissertation Committee

Exercise and Nutrition Sciences Program: Chair (1) Ph.D. Dissertation Committee

Research and Scholarship Learning Group; Member, 2019 – present

Science of Health Care Delivery Faculty Adviser (below): 2019 – present

Graduate student theses (capstone): 7

Barrett Honors Program theses: Chair 4; Member 5

ARCS Fellowship Review Committee Member, 2020 – present

CHS Faculty Mentorship Program, Mentee, 2020 – present
Building Industry Partnerships Committee Member; Member, 2019 – 2021
COVID Translational Team; Lead of Behavioral Health sub-committee, 2020 – 2021
BMI/CHiR Director Faculty Search Committee; Member, 2020 – 2021
CHS COVID Jumpstart Grant Review Committee; Member, 2020
CHS Health Talk; Presenter - Nov. 2020
CHS Research Day; Presenter - Jan. 2020
Science of Health Care Delivery, Undergraduate Curriculum Committee Member, 2019 – 2020

Community

Better Food Foundation, Scientific Advisory Board Member, 2021 – present
University of Arizona Medical School, Scholarly Projects; Faculty Advisor, 2020 – present
Phoenix: Fast Track Cities Ad Hoc Committee; Member, 2020 – present
Calm, Inc.: Scientific Advisory Board Member, 2021 – 2022