

Chad Stecher

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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

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

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

Wagner, Z., **Stecher, C.**, Saya, U. & Linnemayr, S. “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* (forthcoming)

Stecher, C., Fowers, R., Christ, J., Berardi, V., Chung, Y. & Huberty, J. “Using mHealth Data to Identify Mindfulness Meditation Habits and the Associated Mental Health Benefits” *Journal of Medical Internet Research* (forthcoming)

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

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*; Vol. 77., in-press.

Stecher, C. 2021. “Physician Network Connections to Specialists and HIV Quality of Care” *Health Services Research*; published online Feb, 2021, in-press.

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): p. 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*; published April 20 online, in-press.

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: p. 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): p. 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): p.e27106.

Green, J., Huberty, J., Puzia, M. & **Stecher, C.** 2020. “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 Mhealth Uhealth*, 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): p. 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): p. 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): p. 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): p. 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 and Medicine*; 76(1): p. 83 – 91.

Currently Under review

Adams, M., Todd, M., Angadi, S., Hurley, J., **Stecher, C.**, Berardi, V., Phillips, C., McEntee, M., Hovell, M. & Hooker, S. “Adaptive Goal Setting and Financial Reinforcement to Increase Moderate to

Vigorous Physical Activity in Insufficiently Active Overweight Adults: A Randomized Clinical Trial”
R&R: American Journal of Preventive Medicine

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

Stecher, C., Sullivan, M. & Huberty, J. “Using Personalized Anchors to Establish Routine Meditation Practice with a Mobile App: Randomized Controlled Trial.” *Journal of Medical Internet Research* (under review)

Martin, J., **Stecher, C.**, Hui, C., Kisana, H. & Hustedt, J. “Comparison of Postoperative Complications Associated With Anesthetic Choice for Surgery of the Foot or Ankle” *Journal of Orthopaedics and Traumatology*

Works in Progress

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?”

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”

Stecher, C., Pfisterer, B., Harden, S., Epstein, D. & Buman, M. “Assessing the Pragmatic Nature of mHealth Interventions Promoting Physical Activity: A Systematic Review and Meta-Analysis”

Fowers, R., Berardi, V., Huberty, J. & **Stecher, C.** “Using Mobile Meditation App Data to Quickly Identify Persistent Users.”

Stecher, C., Zhou, J., Sankar, A. & Karaca-Mandic, P. “Positive Externalities of Accountable Care Organization Incentives on Peer Physicians’ Treatment Practices: Evidence from the De-Adoption of Fluoroquinolone”

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

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

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-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

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): 2 semester

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

Invited Presentations

- 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

- BMI/CHiR Director Faculty Search Committee; Member, 2020 – present
- Science of Health Care Delivery, Strategic Initiatives Committee; Member, 2020 – present
- COVID Translational Team; Lead of Behavioral Health sub-committee, 2020 – present
- CHS PhD Programs, 2020 – present
 - Biomedical Informatics Program: Chair (1) Ph.D. Dissertation Committee
 - Exercise and Nutrition Sciences Program: Member (2) Ph.D. Dissertation Committee
- Building Industry Partnerships Committee Member; Member, 2019 – present
- Research and Scholarship Learning Group; Member, 2019 – present
- 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
- Graduate Program Science of Health Care Delivery Mentor, 2019 – present
 - Graduate student theses (capstone): 3
 - Barrett Honors Program theses: Chair 2; Member 2

Community

- University of Arizona Medical School, Scholarly Projects; Faculty Advisor, 2020 – present
- Phoenix: Fast Track Cities Ad Hoc Committee; Member, 2020 – present