

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

Stecher, C. 2021. “Physician Network Connections to Specialists and HIV Quality of Care” (*Health Services Research*; 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*; **33**: in-press)

Huberty, J., Puzia, M., Green, J. & **Stecher, C.** “Mental health and meditation practices of pregnant women during COVID-19.” (*Obstetrics and Gynecology Research*; in-press)

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*; in-press)

Green, J., Huberty, J., Puzia, M. & **Stecher, C.** 2020. “Does persistent meditation and physical activity mediate the relationship between perceptions of COVID-19 and mental health? A cross sectional survey of mobile app users in the United States.” *JMIR Mhealth Uhealth*, 8 (11).

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(5).

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): pp. 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): pp. 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): pp. 83 – 91.

Currently Under review

Stecher, C., Mukasa, B., Linnemayr, S. “Uncovering a Behavioral Strategy for Establishing New Habits: Evidence from Incentives for Medication Adherence in Uganda.” (*R&R; Journal of Health Economics*) Available at: SSRN:<https://ssrn.com/abstract=3545590> H-Index=117; JIF-5=2.827

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 Dronedrone for Permanent Atrial Fibrillation.” (*R&R; Circulation: Cardiovascular Quality and Outcomes*) H-Index=80; JIF-5=4.274

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* (under review) H-Index=127; JIF-5=5.03

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” (under review) H-Index=; JIF-5=

Bhuiyan, N., Puzia, M., **Stecher, C.** & Huberty, J. “Associations Between Rural-Urban Status, Health Outcomes and Behaviors, and COVID-19 Perceptions Among Meditation App Users: A Longitudinal Survey” *JMIR mHealth and uHealth* (under review) H-Index=12; JIF-5=4.31

Huberty, J., Green, J., Puzia, M. & **Stecher, C.** “Promoting engagement to a mindfulness meditation mobile app: Evidence from the introduction of a mood check-in mobile app feature.” *Journal of Medical Internet Research* (under review) H-Index=127; JIF-5=5.03

Works in Progress

Stecher, C. & Ketcham, J. 2020. “Does Provider Team Experience Improve Treatment Outcomes? Evidence from Coronary Catheterization Laboratories”

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., 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”

Abashidze, N., **Stecher, C.** & Hughes, D. “Racial Disparities in the Use of Prostate MRI Following an Elevated Prostate-Specific Antigen Test ”

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

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”

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 (Summer support and travel: \$78,350 and full F&A)

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

Mindfulness Takes Practice: Optimizing mHealth Tools for Building Persistent Mindfulness Meditation Habits; CHS COVID Jumpstart Grant (Graduate student support)

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) (Summer support: \$2,778 and full F&A)

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

Identifying the Formation and Functionality of Healthy Behavioral Habits Using Longitudinal mHealth Data; Chapman University Internal Research Grant (Graduate student support)

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

Health Economics (Master): 1 semester

Economics for Health Majors (Undergraduate): 1 semester

Health Economics (Masters): 1 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

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 (1) 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: 7

Community

University of Arizona Medical School, Scholarly Projects; Faculty Advisor, 2020 – present

Phoenix: Fast Track Cities Committee; Member, 2020 – present