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APPOINTMENTS

MIT Sloan, Postdoctoral Associate 2024 - now
Advisor: Catherine Tucker

EDUCATION

University of Texas at Dallas, Ph.D. in Economics 2019 - 2024
Committee: Daniel Arce (Chair), Catherine Tucker, Anne M. Burton, Anton Sobolev
University of Illinois at Urbana-Champaign, Master of Science in Accountancy 2018-2019
(Focus on Data Analytics; Online)
China Academy of Fiscal Sciences (Beijing, China), Master of Business Administration in Accountancy 2013-2016
University of Science and Technology Beijing (Beijing, China), Bachelor of Management in Accountancy, Study Abroad: 2011-2012, Lancaster University (Lancashire, UK) 2009-2013

RESEARCH FIELDS AND METHODOLOGY

Methodology: Causal Inference, Econometrics, Observational Data, Game Theory
Topics: Health IT, Cybersecurity, Privacy, Responsible AI

RESEARCH

Publications

[DYNAMICS OF SHARED SECURITY IN THE CLOUD, WITH DANIEL ARCE](#)
[INFORMATION SYSTEMS RESEARCH, AHEAD OF PRINT](#)

Working Papers

[MERGERS EFFECT ON DATA BREACHES IN HOSPITALS](#)
(Under Review)

Presentations: WEIS'22, TEAMS'23, CSI'23, ASHEcon2023, WEIS'23 (Best Paper), INFORMS'23, SEA, University of Texas at Arlington, Tufts University, Harvard Business School, Inaugural Information Systems Research - INFORMS ISS Paper Development Workshop for Early Career Scholars, Johns Hopkins Conference on Healthcare Markets (scheduled)

Abstract: This study quantifies the effects of mergers on hospital data breaches, disrupting care, leading to fatal consequences, violating privacy rights, and incurring significant costs to remedy. Drawing upon U.S. hospital data over ten years, I provide causal evidence data breach rates double during hospital mergers. The results suggest high pre-signing online visibility contributes to the doubled data breach rates. Online visibility makes mergers more noticeable to malicious actors and raises external threats. Post-signing information

system integration leads to technical challenges, which is another factor for data breach risks. Effective cooperative governance can mitigate the data breach risks in certain types of hospitals. By contrast, I find no evidence that the experience or resources of large multi-hospital health systems reduce data breach risks. These findings have implications for predicting and managing data breach risks for hospital managers, health IT leaders, and healthcare authorities.

MERGERS AND DATA: EVIDENCE FROM HEALTHCARE WITH CATHERINE TUCKER AND AMALIA MILLER
DATA AND RESPONSIBLE AI: EVIDENCE FROM HEALTHCARE WITH CATHERINE TUCKER

Work-in-Progress

OPIOID AND INFORMATION SYSTEMS WITH CATHERINE TUCKER, data approved

AI AND OPERATION MANAGEMENT: EVIDENCE FROM HEALTHCARE

TEACHING EXPERIENCE

Recipient of The 2023 University of Texas at Dallas President's Teaching Excellence Award
Instructor of Record, ECON3310 Intermediate Microeconomic Theory Fall 2022, Spring 2022 and
Average Evaluation: 4.81/5.0; GPA: 3.30/4.0 Fall 2021

Teaching Assistant Fall 2023, Fall 2022, Fall 2021
ECON2302 Principles of Microeconomics

Comets to the Core Assessment Reviewer Spring 2023, Spring 2022

Teaching Assistant Spring 2023
ECON3315 Sports Economics

Teaching Assistant Fall 2022, Fall 2021
ECON2303 Principle of Microeconomics

Teaching Assistant Fall 2020
ECON 6302 Macroeconomic Theory (PhD Core)

Teaching Assistant Spring 2021 and Spring 2020
ECON4385/ECON5397 Business and Economic Forecasting (R)

Teaching Assistant Fall 2019
ECON2301 Principles of Macroeconomics, ECON3312 Money and Banking

FELLOWSHIPS, GRANTS, HONORS, AND AWARDS

Algorithms, Approximation, and Learning in Market and Mechanism Design Workshop, invited attendee 2023

WEIS'23 Best Paper Award, \$1,000 CHF 2023

Georgia Tech School of Cybersecurity and Privacy Travel Grant 2023

The University of Texas at Dallas President's Teaching Excellence Award, \$1,500 2023

Charles C. McKinney Scholarship 2023

DFW Research Data Center Grant, \$10,000 2023

NBER 2023 Workshop of Digital Economics, invited attendee 2023

NBER 2023 Digital Economics Tutorial, invited attendee 2023

Irving J. Hoch Scholarship 2022

Office of Graduate Education Research funding, \$500	2022
NSF graduate student travel grant, \$1,000, CMU	2022
Alfred P Sloan Foundation student travel grant, \$700	2022
Betty Gifford Johnson Travel Award, \$2,000	2022
NBER 2022 Fall Economics of Privacy Tutorial, invited attendee	2022

PRESENTATIONS AND SEMINARS

- March 2025: Johns Hopkins Conference on Healthcare Markets, Presenter, Johns Hopkins Carey Business School, Baltimore, MD
- October 2024: Inaugural Information Systems Research - INFORMS ISS Paper Development Workshop for Early Career Scholars, Mentee, Seattle, WA
- September 2024: Harvard Business School, Presenter, Cambridge, MA
- January 2024: Tufts University, Winthrop University, University of Texas at Arlington
- November 2023: SEA 93rd Annual Meeting, Competition in Healthcare, Presenter, New Orleans, LA
- October 2023: The 2nd University of North Texas Cybersecurity Symposium, Speaker, Denton, TX
- October 2023: Informs Annual Meeting, Community-Committee's Choice Session, Speaker, Phoenix, AZ
- July 2023: The 22nd Workshop on the Economics of Information Security (WEIS), Speaker, Geneva, Switzerland
- June 2023: The 12th American Society of Health Economists (ASHEcon) Annual Conference, Emerging Scholar in Health Care Competition, Presenter, St. Louis, MO
- April 2023: The 1st Texas Applied Microeconomics Student Workshop at UT Austin, Speaker, Austin, TX
- November 2022: SEA 92nd Annual Meeting, Games and Dynamics Session, Presenter, Fort Lauderdale, FL
- October 2022: The 1st University of North Texas Cybersecurity Symposium, Speaker, Denton, TX
- June 2022: The 21st Annual Workshop on the Economics of Information Security (WEIS), Rump Session, Presenter, Tulsa, OK
- April 2022: Economic Brownbag Presentation, School of Economics, Political and Policy Sciences at UT Dallas, Presenter, Richardson, TX

SERVICE AND PROFESSIONAL ACTIVITIES

- Discussant, ASHE'24 Session: Ransomware Attacks in Health Care: Consequences for Hospitals and Patients by Hannah Neprash 2024
- WEIS' 24 Chair for Session 5: Cyber Incidents 2024
- MIS Quarterly 2023 Reviewer Development Workshop, invited mentee November 2023
- Early Career Teachers' Network (ECTN) for OR/MS/Analytics Teachers at INFORMS 2023, invited mentee, Phoenix, AZ October 2023
- University of Texas at Dallas, Student Diversity Advisory Council Fall 2022 - present
- ASHEcon Newsletter Author June 2023
- School of Economic, Political & Policy Sciences TA Orientation, invited talk Fall 2023, Fall 2022
- School of Economic, Political & Policy Sciences Student Advisory Council Fall 2020 - Spring 2022
- AEA-CSWEP PhD workshop for 3rd and 4th year women and non-binary PhD students in Economics and

related fields, invited mentee, Fort Lauderdale, FL November 2022
AEA-CSWEP Successfully Navigating Your PhD mentoring workshop for 3rd Year+ Women & Non-Binary
PhD Students in Economics & Economics-Adjacent Fields, invited mentee, Zoom September 2022
Referee: Information Systems Research, Journal of Industrial Economics, Journal of Cybersecurity

OTHER EDUCATIONAL ACTIVITIES

Management Research Workshop, MIT Sloan Fall 2024
by Catherine Tucker, MIT Sloan
The Third Way Structural Models Meet RCTs, Methods Speaker Series October 2023
by Sebastian Galiani, UTD
Recent Advances in Difference-in-Differences by Jonathan Roth, PDHP Workshop Series July 2023
University of Michigan, Zoom
The 2nd Annual Cybersecurity Summer Institute May 15-24 2023
Georgia Tech's School of Cybersecurity and Privacy, Atlanta, GA
Causal Solutions: Modern Difference-in-Differences Methods, by Pedro Sant'Anna March 2023
Emory University, Zoom
PhD Class of Management and Economics of Innovation September 2022
Copenhagen Business School PhD school, Zoom
AEA Continuing Education January 2022
Modern Sampling Methods: Design and Inference by Keisuke Hirano and Jack Porter, Zoom
Difference-in-Differences and Synthetic Control Workshop October 2021
by Scott Cunningham, UTD
ECON9104C Topics in Econometrics: Machine Learning in Economics, doctoral course May 2021
University of Oslo, Zoom
ECON9912C Topics in Environmental and Resource Economics, doctoral course May 2021
University of Oslo, Zoom
AEA Continuing Education, Industrial Organization January 2021
by Steven Berry and Philip Haile, Zoom

PROFESSIONAL EMPLOYMENT

Business Data Platform Test Engineer, China Construction Bank Supply Chain Finance Co. LTD, Beijing
Mar 2019 - Aug 2019
Collaborated with banks, sales teams, and clients to understand their data needs and requirements for
building a comprehensive Data Warehouse
Designed and executed test cases to validate big data models, data integrity, ETL processes, and data
transformations
Assistant Researcher, Investment Research Institute, Beijing Jul 2016 - Mar 2019
Evaluated potential investment projects in collaboration with government agencies and national venture
capital (VC) leaders
Conducted in-depth research on various industries about investment and finance to generate publications
and communication letters