

December 18, 2023

Nan Clement

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US Permanent Resident

EDUCATION

University of Texas at Dallas, Ph.D. Candidate in Economics 2019 - 2024 (expected)
Thesis Title: "Essays on Digital Economics"
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 2013-2016
Administration in Accountancy
University of Science and Technology Beijing (Beijing, China), Bachelor of 2009-2013
Management in Accountancy, Study Abroad: 2011-2012, Lancaster University (Lancashire, UK)

FIELD

Microeconomics, Public Economics, Health Economics, Digital Economics, Platform Economics, and Cybersecurity

RESEARCH

JOB MARKET PAPER: [M&A EFFECT ON DATA BREACHES IN HOSPITALS: 2010-2022](#)
Presentations: [WEIS'22](#), [TEAMS'23](#), [CSI'23](#), [ASHEcon](#), [WEIS'23 \(Best Paper\)](#), [INFORMS'23](#), [SEA](#)
Abstract: Data breaches in hospitals disrupt care, potentially leading to fatal consequences, violating privacy rights, and incurring significant costs to remedy. Mergers and acquisitions serve as an essential source of financing but also induce substantial management challenges. Using proprietary hospital merger records and archived data breach reporting from the Department of Health and Human Services from 2010 to 2022, I implement a stacked difference-in-differences estimation strategy to study whether and how hospital mergers increase the probability of a data breach. On average, the probability of a data breach for pre-merger deals is approximately 3%, while the data breach rate reaches 6% for the merging deals. The effect is robust to changes of the two-year window. The effect is robust in alternative control group constructions. The effect is also robust to the changes in sample size due to the data availability of the control variables and in how standard errors are clustered. Increased attention online one year before the merger deal is signed, identified with Google Trends score, causes a large increase in pre-signing hacks, especially in recent years through ransomware attacks. Such an effect does not extend to the post-signing period. The increase in post-signing hacks is due to the incompatibility of merging information systems. Conversely, the complementary effect of organizational capital that improves internal risk control reduces the increase in data breaches. The dynamic analysis shows that the situation is getting worse because of soaring cases of hacks.

WORKING PAPERS

[Dynamics of Shared Security in the Cloud](#)
(with Daniel Arce, Information Systems Research, 2nd round Revise and Resubmit)

WORKS IN PROGRESS

Medicare Payment Reforms, Hospital Information Systems, and Merger Outcomes (with Amalia Miller and Catherine Tucker)

Merger Selection and Cyber Risk: Evidence from Panel Data Analysis

Can Google Trends Predict Hospital Data Breaches During Mergers?

Public Company Information Revelation and Data Breaches: 2010-2022 (with Adi Rao and Sanghyun Han)

TEACHING EXPERIENCE

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

November 2023: The 93rd SEA, Competition in Healthcare, speaker, NOLA
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

MIS Quarterly 2023 Reviewer Development Workshop, invited mentee November 2023
Referee, Journal of Cybersecurity 2023
Early Career Teachers' Network (ECTN) for OR/MS/Analytics Teachers at INFORMS 2023, invited mentee, Phoenix, AZ October 2023
AEA-CSWEP Successfully Navigating Your PhD: A Mentoring Workshop for 3rd+ Year Women & Non-Binary PhD Students in Health Economics & Health Policy invited mentee, Zoom September-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
Undergraduate Mentoring: Hannah Smith (Texas Capital Bank Risk Management), Tucker Strow (Finance PhD Application)

OTHER EDUCATIONAL ACTIVITIES

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 Copenhagen Business School PhD school, Zoom	September 2022
AEA Continuing Education Modern Sampling Methods: Design and Inference by Keisuke Hirano and Jack Porter, Zoom	January 2022
Difference-in-Differences and Synthetic Control Workshop by Scott Cunningham, UTD	October 2021
ECON9104C Topics in Econometrics: Machine Learning in Economics, doctoral course University of Oslo, Zoom	May 2021
ECON9912C Topics in Environmental and Resource Economics, doctoral course University of Oslo, Zoom	May 2021
AEA Continuing Education, Industrial Organization by Steven Berry and Philip Haile, Zoom	January 2021
AEA Continuing Education, Markets for Innovation: Market Failures and Public Policies by Kevin Bryan and Heidi Williams, Zoom	January 2021

PROFESSIONAL EMPLOYMENT

Business Data Platform Test Engineer, China Construction Bank Supply Chain Finance Co. LTD, Beijing Mar 2019 - Aug 2019	
Assistant Researcher, Investment Research Institute, Beijing	Jul 2016 - Mar 2019

AFFILIATIONS

American Economic Association
 American Society of Health Economists
 Institute for Operations Research and the Management Sciences

OTHER

Data Access: Texas School Project, Texas Higher Education Coordinating Board, researcher, and PI, approved; Healthcare Information and Management Systems Society, approved

Certificates:

Graduate Teaching Certificate (GTC) UTD Center for Teaching and Learning	2021 Spring
Advanced GTC UTD Center for Teaching and Learning	2021 Fall
Grant Writing Certificate UTD Office of Research and Innovation	undergoing

Visa Status: US Permanent Resident

REFERENCES

Prof. Dann Arce (Committee Chair)

UT System Regents' Outstanding Teacher
Ashbel Smith Professor of Economics
Program Head of Economics
The School of Economic, Political and Policy
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Prof. Catherine Tucker

Sloan Distinguished Professor of Management
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Faculty Chair EMBA Program
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Prof. Anton Sobolev

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Cyber Policy
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