

Ashley L. O'Donoghue, PhD

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EDUCATION

2020	Ph.D.	Economics	Clark University
2017	M.A.	Economics	Clark University
2015	B.A.	Economics and Mathematics <i>magna cum laude</i>	Assumption College

POSITIONS AT ACADEMIC MEDICAL CENTERS

- 2020 – **Economist**, Center for Healthcare Delivery Science
Beth Israel Deaconess Medical Center
- 2018 – 2020 **Research Fellow**, Center for Healthcare Delivery Science
Beth Israel Deaconess Medical Center

FUNDING

- 2020 – 2022 Quantifying secondary health impacts of COVID-19
Google.org
Co-investigator (PI: Jennifer Stevens)
The goal of this project is to quantify the impact of COVID-19 on non-COVID-associated healthcare. A fundamental hypothesis is that preventive care and routine care will be delayed and deferred, leading to subsequent increased healthcare utilization.
- 2018 – 2021 A new approach to patient safety: identifying risky clinical states to reduce preventable harms for hospitalized patients
Doris Duke Charitable Foundation
Collaborator (PI: Jennifer Stevens)
Our proposal developed and refined a tool to quantify the level of risk of preventable patient harms in intensive care units, prospectively validated this tool, and spread this tool to a new clinical environment.

PEER-REVIEWED PUBLICATIONS

underline denotes co-first author

1. Horng S, **O'Donoghue A**, Dechen T, Rabesa M, Shammout A, Markson L, Jegadeesan V, Tandon M, Stevens J. "Secondary use of employee COVID-19 symptom reporting as syndromic surveillance as an early warning signal of future hospitalizations," *JAMA Network Open*. 2021.

2. Anderson T, **O'Donoghue A**, Dechen T, Herzig S, Stevens J. "Trends in telehealth and in-person transitional care management visits during the COVID-19 pandemic," *Journal of the American Geriatrics Society*, 2021.
3. **O'Donoghue A**, Biswas N, Dechen T, Anderson T, Talmor N, Punnamaraju A, Stevens J. "Trends in filled naloxone prescriptions before and during the COVID-19 pandemic in the United States," *JAMA Health Forum*, 2021.
4. Stevens J, Mechanic O, Markson L, **O'Donoghue A**, Kimball A. "Telehealth use by age and race at a single academic medical center during COVID-19," *Journal of Medical Internet Research*, 2021.
5. **O'Donoghue A**, Dechen T, Pavlova W, Boals M, Moussa G, Madan M, Thakkar A, DeFalco F, Stevens J. "Reopening businesses and risk of COVID-19 transmission," *npj Digital Medicine*. 2021.
6. Mitra A, Griesdale D, Haljan G, **O'Donoghue A**, Stevens J. "How the high acuity unit changes mortality in the intensive care unit: a retrospective before-after study," *Canadian Journal of Anesthesia*. 2020.
7. Horng S, Joseph J, Calder S, Stevens J, **O'Donoghue A**, Safran C, Nathanson L, Leventhal E. "Assessment of unintentional duplicate orders by emergency department clinicians before and after implementation of visual aid in the electronic health record ordering system," *JAMA Network Open*. 2019.

NON-PEER-REVIEWED PUBLICATIONS

8. Chawla K, Oriol N, **O'Donoghue A**. "Addressing racial health inequities includes addressing the minimum wage," *The Hill*. April 18, 2021.
9. **O'Donoghue A**, Dechen T. "Reopening businesses during the COVID-19 pandemic: how can we improve measures of human interaction?" *npj Digital Medicine Community: Behind the Paper*. March 16, 2021.
10. Stevens J, **O'Donoghue A**, Horng S, Tandon M, Tabb K. "Healthcare's earthquake: Lessons from complex adaptive systems to develop COVID-19-responsive measures and models," *NEJM Catalyst*. October 23, 2020.
11. Stevens J, Horng S, **O'Donoghue A**, Moravick S, Weiss A. "How one Boston hospital built a covid-19 forecasting system," *Harvard Business Review*. June 29, 2020.

HONORS AND AWARDS

2020	Lead, first place team, MIT COVID-19 Challenge Datathon	MIT
2019	Outstanding Teaching Assistant of the Year (University Award)	Clark University
2018	Outstanding Teaching Assistant of the Year (Department Award)	Clark University
2017	Outstanding Teaching Assistant of the Year (Department Award)	Clark University
2014	Conference Travel Award	Assumption College
2014	Omicron Delta Epsilon Economics Honor Society	Assumption College
2014	Kappa Mu Epsilon Mathematics Honor Society	Assumption College

PROFESSIONAL SERVICE

AD-HOC REVIEWER

JAMA Network Open

npj Digital Medicine

Scientific Reports

CONFERENCES

2021	American Society of Health Economists Annual Conference	Scientific Review Committee
2020	American Society of Health Economists Annual Conference	Scientific Review Committee

INVITED PRESENTATIONS AND POSTERS (including scheduled)

No presentations below were sponsored by 3rd parties/outside entities.

LOCAL

2020	Artificial Intelligence/Machine Learning Symposium (BIDMC)
	Center for Healthcare Delivery Science Grand Rounds (BIDMC)
	Center for Healthcare Delivery Science Seminar (BIDMC)
	Department of Healthcare Quality Seminar (BIDMC)

REGIONAL

2020	Massachusetts Health Data Consortium Seminar (virtual)
2019	Economics Research Seminar (Fitchburg State University)
	17 th Multidisciplinary Conference (Clark University)

NATIONAL

2021	American Society of Health Economists' Annual Conference (virtual)
	AcademyHealth Annual Research Meeting (virtual)
2020	Southern Economic Association Annual Meeting (New Orleans, LA)
	AcademyHealth Annual Research Meeting (virtual)
	American Society of Health Economists' Annual Conference (St. Louis, MO)*
	Eastern Economic Association Annual Meeting (Boston, MA)
2019	Southern Economic Association Annual Meeting (Fort Lauderdale, FL)
	IUSSP Population, Poverty and Inequality Research Conference (Ann Arbor, MI)

* scheduled to present, but conference cancelled due to COVID-19 pandemic

TEACHING EXPERIENCE

Instructor, Department of Economics, Clark University		
Fall 2019	Economics & the World Economy	4.9/5.0
Fall 2018	Economics & the World Economy	4.8/5.0
Teaching Assistant, Department of Economics, Clark University		
Spring 2019	Economics & the World Economy	4.9/5.0

Spring 2018	Introduction to Statistics	4.8/5.0
Fall 2017	Economics & the World Economy	4.8/5.0
Spring 2017	Introduction to Statistics	4.8/5.0
Fall 2016	Introduction to Statistics	4.9/5.0
Spring 2016	Economics & the World Economy	4.6/5.0
Fall 2015	Economics & the World Economy	4.5/5.0

PROFESSIONAL SOCIETIES

2020 –	American Economic Association	Member
2020 –	AcademyHealth	Member
2020 –	International Health Economics Association (iHEA)	Member
2019 –	American Society of Health Economists	Member
2019 –	Southern Economic Association	Member
2018 –	International Union for the Scientific Study of Population	Member

PROFESSIONAL DEVELOPMENT

2020	Machine Learning: Hands-On Python in Data Science	Udemy
2019	Machine Learning Course, Stanford University	Coursera
2019	Applied Data Science in Python Specialization Certificate, IBM	Coursera
2018	Seminar in College Teaching Course	HECCMA
2016	Project TIER (Teaching Integrity in Empirical Research) Workshop	Clark University

SELECTED MEDIA

OPIOID USE DISORDER

US News & World Report, "During pandemic, fewer using drug that fights opioid overdose."

Becker's Hospital Review, "Naloxone prescriptions dip during the pandemic."

PatientEngagementHIT, "COVID-19 stymies naloxone, care access for OUD patients."

COVID

MIT Quest for Intelligence "What is the covid-19 data tsunami telling policymakers?"

AI in Healthcare, "4 takeaways from a Harvard hospital's homegrown COVID forecasting."

Becker's Hospital Review, "How Beth Israel Deaconess Medical Center predicted COVID-19 surges 5 days before national models."

Becker's Hospital Review, "Beth Israel Deaconess researchers create tool to assess safety of reopening businesses."

VTDigger, "Study: High-risk behavior dropped more in Vermont than in nearby states."

Becker's Hospital Review, "The predictive analytics tools hospitals are using to forecast COVID-19 case surges."

The Future Car: A Siemens Podcast "Modeling, economists and predicting the new normal."