Ashley L. O'Donoghue, PhD

Center for Healthcare Delivery Science
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EDUCATION

2020	Ph.D.	Economics *Field: Applied Econometrics*	Clark University
2017	M.A.	Economics	Clark University
2015	B.A.	Economics and Mathematics *magna cum laude*	Assumption College

RESEARCH EXPERIENCE

2020 – Present   **Economist**, Center for Healthcare Delivery Science
Beth Israel Deaconess Medical Center

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

2016 – 2018   **Summer Research Assistant**, Department of Economics
Clark University

2014 – 2015   **Research Intern**
Worcester Regional Research Bureau

PEER-REVIEWED PUBLICATIONS

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.

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;2(12):e1916499.

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.

NON-PEER REVIEWED PUBLICATIONS

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 Award	Clark University
2018	Department of Economics' departmental teaching assistant recognition	Clark University
2017	Department of Economics' departmental teaching assistant recognition	Clark University
2015	Ph.D. Full Tuition Scholarship	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
2011	Undergraduate Partial Tuition Scholarship	Assumption College
2011 – 2014	Dean's List	Assumption College

PROFESSIONAL SERVICE

2020	*npj Digital Medicine*	Ad-hoc Reviewer
2020	American Society of Health Economists Annual Conference	Scientific Review Committee
2020	Southern Economic Association Annual Meeting	Discussant
2020	Eastern Economic Association Annual Meeting	Discussant
2019	Southern Economic Association Annual Meeting	Discussant

INVITED TEACHING, PRESENTATIONS, AND POSTERS (including scheduled)
LOCAL

2020   "The effect of the Medicaid expansion on opioid prescribing rates and drug-related foster care removals"
Center for Healthcare Delivery Science Grand Rounds
Beth Israel Deaconess Medical Center, Boston, MA

2020   "Reopening businesses and risk of COVID-19 transmission"
Center for Healthcare Delivery Science Work-in-Progress Seminar
Beth Israel Deaconess Medical Center, Boston, MA

2020	"Real-time ML-driven COVID-19 forecasting" Department of Healthcare Quality Seminar Beth Israel Deaconess Medical Center, Boston, MA
2020	"Real-time ML-driven COVID-19 forecasting" Center for Healthcare Delivery Science Work-in-Progress Seminar Beth Israel Deaconess Medical Center, Boston, MA
2020	"Prospective cohort study of a proof-of-concept method to monitor nursing stress in the emergency department before and after an operational change" Artificial Intelligence/Machine Learning Symposium Beth Israel Deaconess Medical Center, Boston, MA

REGIONAL

2020	"Real-time ML-drive COVID-19 forecasting" Massachusetts Health Data Consortium Webinar
2019	"The effect of naloxone access on opioid-related mortality" Economics Seminar Series Fitchburg State University, Fitchburg, MA
2019	"The effect of naloxone access on opioid-related mortality" 17th Multidisciplinary Conference Clark University, Worcester, MA
2019	"The effect of a large-scale workfare program on child marriage in India" 17th Multidisciplinary Conference Clark University, Worcester, MA
2018	"Effective Strategies for Teaching Assistants" University-Wide Teaching Assistant Orientation Clark University, Worcester, MA
2017	"Effective Strategies for Teaching Assistants" University-Wide Teaching Assistant Orientation Clark University, Worcester, MA

NATIONAL

2020	"The effect of the Medicaid expansion on opioid prescribing rates and drug-related foster care removals" Southern Economic Association Annual Meeting, New Orleans, LA (virtual)
2020	"The effect of the Medicaid expansion on opioid prescribing rates and drug-related foster care removals" AcademyHealth Annual Research Meeting, Boston, MA (virtual)
2020	"The effect of the Medicaid expansion on opioid prescribing rates and drug-related foster care removals" American Society of Health Economists' Annual Conference, St. Louis, MO*
2020	"The effect of the Medicaid expansion on opioid prescribing rates and drug-related foster care removals" Eastern Economic Association Annual Meeting, Boston, MA
2019	"The effect of a large-scale workfare program on child marriage in India" Southern Economic Association Annual Meeting, Fort Lauderdale, FL

| 2019 | "The effect of a large-scale workfare program on child marriage in India" | |
| | IUSSP Population, Poverty and Inequality Research Conference, Ann Arbor, MI | |

INTERNATIONAL

| 2014 | "The non-linear impact of family income on child educational outcomes" | |
| | Business and Economics Society International Annual Meeting, Florence, Italy | |

* 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	4.92/5.00
Fall 2018	Economics & the World Economy	4.83/5.00
	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
2019 –	American Society of Health Economists	Member
2019 –	Midwest Economic Association	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 *(in-progress)*	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