

# Ashley L. O'Donoghue, PhD

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Center for Healthcare Delivery Science  
Beth Israel Deaconess Medical Center  
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## EDUCATION

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

## RESEARCH EXPERIENCE

2020 – Present	<b>Economist</b> , Center for Healthcare Delivery Science Beth Israel Deaconess Medical Center
2018 – 2020	<b>Pre-Doctoral Research Fellow</b> , Center for Healthcare Delivery Science Beth Israel Deaconess Medical Center
2016 – 2018	<b>Summer Research Assistant</b> , Department of Economics Clark University
2014 – 2015	<b>Research Intern</b> 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.
- Hornig 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 – 2020     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)

## OTHER WRITING

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 of winning 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	<i>npj Digital Medicine</i>	Reviewer
2020	American Society of Health Economists 9 <sup>th</sup> Annual Conference	Reviewer

## 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
- 2019 “The effect of NFL games on emergency room visits: an instrumental variable approach using the pre-game Las Vegas point spread”  
Graduate Student Research Seminar  
Department of Economics, Clark University, Worcester, MA
- 2019 “The effect of naloxone access on opioid-related mortality”  
Graduate Student Research Seminar  
Department of Economics, Clark University, Worcester, MA
- 2019 “The effect of naloxone access on opioid-related mortality”  
17<sup>th</sup> Multidisciplinary Conference  
Clark University, Worcester, MA
- 2019 “The effect of a large-scale workfare program on child marriage in India”  
17<sup>th</sup> Multidisciplinary Conference  
Clark University, Worcester, MA
- 2019 “The effect of a large-scale workfare program on child marriage in India”  
Graduate Student Research Seminar  
Department of Economics, 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

## **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”  
17<sup>th</sup> Multidisciplinary Conference  
Clark University, Worcester, MA
- 2019 “The effect of a large-scale workfare program on child marriage in India”  
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- 2018 “Effective Strategies for Teaching Assistants”  
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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 90 <sup>th</sup> Annual Meeting, New Orleans, LA (virtual)
2020	“The effect of the Medicaid expansion on opioid prescribing rates and drug-related foster care removals” AcademyHealth’s 2020 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’ 9 <sup>th</sup> 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 46 <sup>th</sup> Annual Meeting, Boston, MA
2019	“The effect of a large-scale workfare program on child marriage in India” Southern Economic Association 89 <sup>th</sup> 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” 24 <sup>th</sup> Business and Economics Society International Conference, Florence, Italy
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\* scheduled to present, but conference cancelled due to COVID-19 pandemic

## TEACHING EXPERIENCE

<b>Instructor, Department of Economics, Clark University</b>		
Fall 2019	Economics & the World Economy	4.92/5.00
Fall 2018	Economics & the World Economy	4.83/5.00
<b>Teaching Assistant, Department of Economics, Clark University</b>		
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 ( <i>in-progress</i> )	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