

# JÓNAS ODDUR JÓNASSON

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## Academic appointments

MIT SLOAN SCHOOL OF MANAGEMENT

- 2022 – Present Associate Professor (without tenure) of Operations Management
  - Affiliated with the Operations Research Center
  - Affiliated with the MIT Sloan Health Systems Initiative
- 2022 – Present Robert G. James Career Development Associate Professor
- 2016 – 2022 Assistant Professor of Operations Management
- 2018 – 2021 Class of 1943 Career Development Assistant Professor

## Research interests

Operations Management, Healthcare Delivery Operations, Health Policy, Health Analytics.  
Non-Profit Operations, Global Health, Social Determinants of Health, Behavioral Health.  
Operational Team Productivity, Ambulance Operations.

## Education

LONDON BUSINESS SCHOOL

- 2016 PhD Management Science and Operations.  
Thesis: *Data-driven Models of Healthcare Delivery Operations.*

- 2012 M.Res Management Science and Operations.

UNIVERSITY OF CAMBRIDGE

- 2010 M.Phil Management Science and Operations.  
Thesis: *An analysis of the effect of non-uniform conversion rates on Sponsored Search Auctions.*

LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

- 2009 M.Sc. Operational Research, with distinction.  
Thesis: *An examination of the usefulness of reformulating Integer Programs as Flow Problems.*

UNIVERSITY OF ICELAND

- 2008 B.Sc. Industrial Engineering, first class grade.

UNIVERSITY OF MIAMI

- 2007 Exchange studies in Industrial Engineering.

## Research

### Journal publications (in reverse chronological order)

13. *The Policy Case for Designating EMS Teams for Vulnerable Patient Populations: Evidence from an Intervention in Boston.*  
Mark Brennan, Sophia Dyer, Jónas Oddur Jónasson, James Salvia, Laura Segal, Erin Serino, and Justin Steil.  
*Health Care Management Science* (2023), 1-16.
12. *Robust Combination Testing: Methods and Application to COVID-19 Detection.*  
Sanjay Jain, Jónas Oddur Jónasson, Jean Pauphilet, and Kamalini Ramdas.  
*Management Science*. Forthcoming.
11. *Redesigning Sample Transportation in Malawi Through Improved Data Sharing and Daily Route Optimization.*  
Emma Gibson, Sarang Deo, Jónas Oddur Jónasson, Mphatso Kachule, and Kara Palamountain.

- Manufacturing & Service Operations Management* (2023), 25(4):1209-1226.
- First prize. 2021 M&SOM Practice-Based Research Competition.
  - Second prize. 2021 Best Paper Competition of the College of Healthcare Operations Management (CHOM) of the Production and Operations Management Society (POMS).
  - First prize (Emma Gibson). 2020 INFORMS Doing Good with Good OR student paper competition.
10. *Can digital adherence technologies reduce inequity in tuberculosis treatment success? Evidence from a randomized controlled trial.*  
Justin J. Boutilier, Erez Yoeli, Jon Rathausser, Philip Owiti, Ramnath Subbaraman, and Jónas Oddur Jónasson.  
*BMJ Global Health* (2022), 7:e010512.
9. *The Distributional Impact of Fatigue on Performance.*  
Hessam Bavafa and Jónas Oddur Jónasson.  
*Management Science*. Forthcoming.
8. *Social Impact Operations at the Global Base of the Pyramid.*  
Jónas Oddur Jónasson, Kamalini Ramdas, and Alp Süngü.  
*Production and Operations Management* (2022), 31(12), 4364-4378.
7. *Vaccine Supply Chains in Resource-Limited Settings: Mitigating the Impact of Rainy Season Disruptions.*  
Kim De Boeck, Catherine Decouttere, Jónas Oddur Jónasson, and Nico Vandaele.  
*European Journal of Operational Research* (2022), 301(1):300-317.
6. *Improving TB Treatment Adherence Support: The Case for Targeted Behavioral Interventions.*  
Justin Boutilier, Jónas Oddur Jónasson, and Erez Yoeli.  
*Manufacturing & Service Operations Management* (2022), 24(6):2925-2943.  
- Finalist. 2021 INFORMS Pierskalla Award for Best Paper in Healthcare Management Science.
5. *An Unstructured Supplementary Service Data System for Daily Tracking of Patient Samples and Diagnostic Results in a Diagnostic Network in Malawi: System Development and Field Trial.*  
Daniel Killian, Emma Gibson, Mphatso Kachule, Kara Palamountain, Joseph Bitilinyu Bangoh, Sarang Deo, and Jónas Oddur Jónasson (joint last author with S. Deo).  
*Journal of Medical Internet Research* (2021), 23(7):e26582.
4. *The Variance Learning Curve.*  
Hessam Bavafa and Jónas Oddur Jónasson.  
*Management Science* (2021), 67(5):3104-3116.  
- Finalist. 2021 MSOM Service Management Special Interest Group Best Paper Award.
3. *Learning from Many: Partner Exposure and Team Familiarity in Fluid Teams.*  
Zeynep Akşin, Sarang Deo, Jónas Oddur Jónasson, and Kamalini Ramdas.  
*Management Science* (2021), 67(2):854-874.  
- Non-technical op-ed: “[Learning From Many](#)” *Psychology Today*. Feb 3, 2020.
2. *Recovering from Critical Incidents: Evidence from Paramedic Performance.*  
Hessam Bavafa and Jónas Oddur Jónasson.  
*Manufacturing & Service Operations Management* (2021), 23(4):914-932.  
- Finalist. 2022 M&SOM Best Paper Award.  
- Non-technical op-ed: “[Emotional States Matter in Service Operations Settings](#)” *Psychology Today*. Nov 12, 2019.

1. *Improving HIV early infant diagnosis supply chains in sub-Saharan Africa: Models and application to Mozambique.*  
 Jónas Oddur Jónasson, Sarang Deo and Jérémie Gallien.  
*Operations Research* (2017), 65(6):1479-1493.
  - Finalist. 2019 MSOM Responsible Research competition.
  - First prize. 2014 MSOM student paper competition.
  - Selected by the *Financial Times* as one of 100 business school papers with social impact.
  - Abstract published in *Manufacturing & Service Operations Management*, 17(2):262-264.
  - Non-technical op-ed: “We found ways to shorten the turnaround time for diagnosing babies with HIV”. *The Conversation*. Jan 17, 2018.

### Working papers

14. *Preventing Opioid Overdose: From Prediction to Operationalization.*  
 Jónas Oddur Jónasson, Neal Kaw, Deeksha Sinha, Nikos Trichakis, Anyi Chen, Joseph Conte, Ashley Restaino, and Salvatore Volpe.  
 Under major revision for *Manufacturing & Service Operations Management*.
15. *Policy Optimization for Personalized Interventions in Behavioral Health.*  
 Jackie Baek, Justin J. Boutilier, Vivek F. Farias, Jónas Oddur Jónasson, and Erez Yoeli.  
 Under major revision for *Manufacturing & Service Operations Management*.
16. *Favorable Risk Selection in Medicare Advantage: The Effect of Allowing Non-Medical Services.*  
 Woonam Hwang, Jónas Oddur Jónasson, and Heikki Peura.  
 Under major revision for *Manufacturing & Service Operations Management*.

### In progress

17. *Digital Adherence Support for Tuberculosis Treatment: A Multicentre Randomized Trial in Kenya.*  
 Erez Yoeli, Jonathan Rathausser, Edwin Nyakan, Justin J. Boutilier, Jonathon R. Campbell, Moreen Chilo, Lewis Muriuki Irungu, Jónas Oddur Jónasson, Maureen Kamene Kimenye, Faith Kavata Muchiri, Alice M. Mwikamba, Teresa Adhiambo Ochieng, Jill Ondigo, Philip Owiti, Kevin Schwartzman, and David G. Rand.
18. *Deployment Guidelines for Community Health Workers in Sub-Saharan Africa.*  
 Carri Chan, Sarang Deo, Jónas Oddur Jónasson, and Jérémie Gallien.
19. *Randomized Controlled Trials of Service Interventions: The Impact of Capacity Constraints.*  
 Justin J. Boutilier, Jónas Oddur Jónasson, and Hannah Li.

### Awards and honors

(\* denotes honors or awards received by students)

- 2022 *M&SOM* Meritorious Service Award.
- 2022 Finalist. *M&SOM* Best Paper Award. For *Recovering from Critical Incidents: Evidence from Paramedic Performance*.
- 2021 Finalist. MSOM Service Management SIG Best Paper Award. For *The Variance Learning Curve*.
- 2021 Finalist. INFORMS William Pierskalla Award for Best Paper in Healthcare Management Science. For *Improving TB Treatment Adherence Support: The Case for Targeted Behavioral Interventions*.
- 2021 Finalist. INFORMS Sanjay and Panna Mehrotra Research Excellence Award, which is given to a mid-career researcher for significant contributions to the practice of health applications through operations research and management science modeling and methodologies.

- 2021 First prize. *M&SOM* Practice-Based Research Competition. For *Redesigning Sample Transportation in Malawi Through Improved Data Sharing and Daily Route Optimization*.
- 2021 Second prize. Best Paper Competition of the College of Healthcare Operations Management (CHOM) of the Production and Operations Management Society (POMS). For *Redesigning Sample Transportation in Malawi Through Improved Data Sharing and Daily Route Optimization*.
- 2021 *Management Science* Meritorious Service Award.
- 2020 *Improving HIV early infant diagnosis supply chains in sub-Saharan Africa: Models and application to Mozambique* featured as one of 100 papers selected by the *Financial Times* as [Business School Papers with Social Impact](#).
- 2020 *Management Science* Meritorious Service Award.
- 2020 *M&SOM* Meritorious Service Award.
- 2020\* First prize. INFORMS Doing Good With Good OR student paper competition (awarded to Emma Gibson). For *Redesigning Sample Transportation in Malawi Through Improved Data Sharing and Daily Route Optimization*.
- 2019 *M&SOM* Meritorious Service Award.
- 2019 Finalist. MSOM Society Award for Responsible Research. For *Improving HIV early infant diagnosis supply chains in sub-Saharan Africa: Models and application to Mozambique*.
- 2014 First prize. MSOM student paper competition. For *Improving HIV early infant diagnosis supply chains in sub-Saharan Africa: Models and application to Mozambique*.
- 2014 INFORMS Seth Bonder Scholarship for Applied Operations Research in Health Services.

## Research grants

- 2022 MIT – Takeda Program research grant (\$ 600,000, with Vivek Farias).
- 2021 NEC Corporation Fund for Research in Computers and Communications grant. Awarded by the MIT Research Support Committee (\$ 75,000).
- 2017 *Grand Challenges Exploration* award from the Bill and Melinda Gates Foundation (\$ 100,000).
- 2015 Bonder Scholar Research Grant (\$ 4,000).
- 2015 Deloitte Institute of Innovation and Entrepreneurship (DIIE) PhD Stipend.
- 2014 ICEIDA (Icelandic International Development Agency) Doctoral Scholarship.
- 2010-2014 London Business School PhD Programme Financial Award.
- 2009-2010 Overseas student bursary. Cambridge Overseas Trust.
- Travel grants: Health Systems Optimization Workshop (Chicago, 2014), Health & Humanitarian Logistics Conference (Hamburg 2012).

## Invited conference and seminar presentations

- 2023 Georgetown University—McDonough School of Business; University College London—School of Management; European School of Management and Technology; University of Cambridge—Judge Business School; KU Leuven; INSEAD Business School; University of Michigan—Ross School of Business; Stanford University—Graduate School of Business; Institute for Mathematical and Statistical Innovation—Workshop on Predictive Analytics, Business Modeling and Optimization in Healthcare Operations Management; Northwestern University—Kellogg School of Management.
- 2022 UC Berkeley—Haas School of Business; Yale School of Management; Dartmouth—Tuck School of Business; EURO Annual Meeting (Espoo); MSOM Annual Conference (Munich); INFORMS Annual Meeting (Indianapolis); NC State University—Doing Good with OM/OR conference.
- 2021 UT Austin—McCombs School of Business; Koç University; MIT—Health Systems Initiative; University of Pennsylvania—The Wharton School.
- 2020 Rotman Roundtable on Data Analytics in Healthcare (Toronto).
- 2019 University of Maryland—Robert H. Smith Business School; University of Chicago—Booth School of Business. INFORMS Healthcare 2019 (MIT). INFORMS Annual Meeting (Seattle).

- 2018 Icahn School of Medicine — Arnhold Institute for Global Health; Riders for Health, Malawi; MSOM Annual Conference (UT Dallas); Emory University—IS&OM Workshop of Empirical Research; INFORMS Annual Meeting (Phoenix); Georgia Institute of Technology—ISyE; Malawi Ministry of Health — Diagnostics sub-committee.
- 2017 Reykjavík University; Riders for Health, Malawi; INFORMS Annual Meeting (Houston); MIT — ORC.
- 2016 MIT — Health Systems Innovation initiative; INFORMS Annual Meeting (Nashville); Deloitte Institute for Innovation and Entrepreneurship Research Symposium (Ditchley house); Workshop on Empirical Research in Operations Management (Wharton); London Ambulance Service; INFORMS International Meeting (Hawaii); UNC — Kenan-Flagler Business School; MIT — Sloan School of Management; INSEAD Business School; Harvard — Chan School of Public Health; IU — Kelley School of Business; UVA — Darden School of Business; CMU — Tepper School of Business; UCLA — Anderson School of Management; UCSD — Rady School of Management; McGill — Desautels Faculty of Management; Oxford — Saïd Business School.
- 2015 INFORMS Annual Meeting (Philadelphia); IESE Business School.
- 2014 Health Systems Optimization Workshop (Northwestern); INFORMS Annual Meeting (San Francisco).
- 2013 Trans-Atlantic Doctoral Conference (LBS); INFORMS Healthcare (Chicago); EURO-INFORMS Joint International Meeting (Rome); MSOM Annual Conference (INSEAD).
- 2012 Health & Humanitarian Logistics Conference (Hamburg); MSOM Annual Conference (Columbia).

## Teaching

### MIT

- 2022 Introduction to Operations Management, MBA (Evaluation score: 4.8/5)
- 2022 Healthcare Lab: Introduction to Healthcare Delivery, MBA Elective (Evaluation score: 4.5/5)
- 2021 Introduction to Operations Management, MBA (Evaluation score: 4.6/5)
- 2021 Healthcare Lab: Introduction to Healthcare Delivery, MBA Elective (Evaluation score: 4.5/5)
- 2020 Introduction to Operations Management, MBA (Evaluation score: 4.6/5)
- 2020 Healthcare Lab: Introduction to Healthcare Delivery, MBA Elective (Evaluation score: 4.5/5)
- 2019 Introduction to Operations Management, MBA (Evaluation score: 4.2/5)
- 2019 Healthcare Lab: Introduction to Healthcare Delivery, MBA Elective (Evaluation score: 4.0/5)
- 2018 Introduction to Operations Management, MBA (Evaluation scores: 3.9, 4.1, & 4.5/5)
- 2017 Introduction to Operations Management, MBA (Evaluation scores: 4.5 & 4.2/5)

### London Business School (TA)

- 2014-2015 Operations Management (Executive MBA—London and Dubai)
- 2011-2014 Innovating Business Models, Products, & Services (MBA Elective)

## Teaching material

- 2023 “Medically Home: Bringing the Hospital Home.” MIT Sloan case (currently in final draft form).  
With Anne Quaadgras and Cate Reavis.

## Student supervision

- |                               |   |
|-------------------------------|---|
| Leah Paige Gaffney (LGO)      | 2023-2024 (joining with Martha Gray and Thomas Heldt) |
| Mariam Ibrahim (LGO)          | 2022-2023 (joint with A. John Hart)                   |
| Michaela Elizabeth Murr (LGO) | 2022-2023 (joint with Duane Boning)                   |
| Rebecca Reubenstein (ORC SM)  | 2021-2023   |
| Emma Gibson (ORC PhD)         | 2018-2022   |
| Kenny Groszman (LGO)          | 2021-2022 (joint with Rama Ramakrishnan)              |
| Christopher Cubra (LGO)       | 2021-2022 (joint with Daniel Frey)                    |
| Ankita Singth (LGO)           | 2020-2021 (joint with Ellen Roche)                    |

Levi DeLuke (LGO)	2020-2021 (joint with Ellen Roche)
Daniel Killian (ORC SM)	2019-2021
Neal Kaw (ORC SM)	2019-2021 (joint with Nikos Trichakis)
Denton Xiang He (LGO)	2019-2020 (joint with Hermano Igo Krebs)
Merin Thomas (LGO)	2018-2019 (joint with David Simchi-Levi)
Benjamin Awuondo (LGO)	2017-2018 (joint with Stanley B. Gershwin)
Atikha Rizwan (SDM)	2017-2018
Tim Scully (ORC SM)	2016-2017 (joint with Nikos Trichakis)

## PhD thesis committees

PhD Committee for Kevin Hu (ORC)	2024
PhD Committee for Xinming Liu (ORC)	2024
PhD Examiner for Tom Pape (Cambridge)	2022
PhD Committee for Kelly Zhang (Harvard)	2023
PhD Committee for Irra Na (ORC)	2023
PhD Committee for Kim de Boeck (KU Leuven)	2023
PhD Committee for Ioannis Spantidakis (ORC)	2022
PhD Committee for Andy Zheng (ORC)	2022
PhD Committee for Patricio Tomas Foncea Araneda (ORC)	2022
PhD Committee for Joshua Wilde (ORC)	2022
PhD Committee for Ted Philip Papalexopoulos (ORC)	2022
PhD Committee for Deeksha Sinha (ORC)	2021
PhD Committee for Divya Singhvi (ORC)	2020
PhD Committee for Michael Hu (ORC)	2019
PhD Committee for Daisy Zhuo (ORC)	2018

## Professional activities

- Associate editor:
- *Management Science* (2024-Present).
  - *IIEE Transactions on Healthcare Systems Engineering* (2022-Present).
  - *Manufacturing & Service Operations Management* (ad hoc).
- Journal reviewer:
- *Management Science*
  - *Operations Research*
  - *Manufacturing & Service Operations Management*
  - *Production and Operations Management*
  - *European Journal of Operations Research*
  - *Journal of Operations Management*
  - *Service Science*
  - *JAMA Network Open*
  - *American Journal of Public Health*
  - *Sustainability*
  - *Philosophical Transactions A*
  - *Human Resource Management*
  - *Journal of Business Ethics*
- Competition reviewer:
- INFORMS Pierskalla Best Paper Award (2016, 2017, 2019)
  - INFORMS MSOM Student Paper Competition (2021,2023)
  - INFORMS HAS Best Student Paper Competition (2023)
  - INFORMS PSOR Best Paper Competition (2017, 2018, 2019, 2020, 2022)
  - POMS Healthcare Best Paper Competition (2017, 2020, 2023)
  - POMS SCM College Best Student Paper Competition (2020)
  - MIT ORC Best Paper Competition (2017, 2018, 2022, 2023 (Chair))

- Committee member: - INFORMS Seth Bonder Scholarship for Applied OR in Health Services  
(2021 (Chair), 2022, 2024).
- Co-organizer: - INFORMS Annual Meeting HAS cluster 2023 (Co-Chair)  
- MSOM Healthcare SIG Workshop 2022 (Co-Chair)  
- INFORMS Healthcare Conference 2019 (Program Chair)  
- Trans-Atlantic Doctoral Conference 2012
- Member: - INFORMS  
- MSOM  
- HAS

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