

CURRICULUM VITAE
RYAN HASTINGS

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EDUCATION

- 2022 **Duke University.** Durham, North Carolina. Bachelor of Science, *summa cum laude*.
Major in Economics, with High Distinction;
Major in Statistical Science,
Concentrations in Mathematical Statistics & Data Science;
Minor in Mathematics.
- 2018 **Unionville High School.** Kennett Square, Pennsylvania.

FIELD INTERESTS

Primary: Urban Economics, Spatial Economics, Empirical Industrial Organization.
Secondary: Public Economics, Environmental Economics.

WORK IN PROGRESS

Work-from-Home, Foot Traffic, and Retail Amenities.

As hybrid and remote work becomes more common, how does the reduction in commuter foot traffic affect retail amenities and consumer welfare? Using cell phone location data, we investigate how visits to venues change when remote workers no longer travel from the office nor the commuting path. We also examine the resulting effects on retailer profits, entry, and exit.

The Welfare Effects of Efficiency Innovations in Residential Land Use.

More efficient use of residential land could mitigate housing supply and affordability concerns. One increasingly common innovation is the construction of accessory dwelling units (ADUs) attached to or on the same lot as a primary residence. We quantify the effects of ADUs on house prices, rents, and resident welfare.

WORKING PAPERS

Pandemic Movement Patterns and the Heterogeneous Value of a Statistical Life.¹

We study the trade-offs that consumers faced when choosing whether to visit venues like stores and restaurants during the COVID-19 pandemic. First, we estimate heterogeneous fatality rates using the health outcomes of millions of COVID-19 patients. Then, using a panel of cell phone location data tracking visits to venues before and during the pandemic, we examine how the responsiveness to infection-related mortality risk varied across age groups. Our results suggest that older people's movements are less sensitive to mortality risk. Under weak assumptions, this implies that older people have a lower willingness to

¹ This paper originated as the undergraduate thesis titled "Does Responsiveness to Mortality Risk Vary by Age? Evidence from Pandemic Health Outcomes and Movement Patterns."

pay for marginal reductions in the probability of death. This finding has implications for the cost-benefit analysis of policies that mitigate adverse health outcomes, such as pandemic movement restrictions and pollution remediation, and for the value of statistical life (VSL) literature more broadly.

RESEARCH EXPERIENCE

ECONOMICS

2022-2024 Research Assistant to Professor Jessie Handbury.
2022-2024 Research Assistant to Professor Sophie Calder-Wang.
2019-2022 Research Assistant to Professor Christopher Timmins.

OTHER DISCIPLINES

2018-2022 Research Assistant, Kenan Institute for Ethics, *Kenan Refugee Project*.
2021 Research Assistant, Duke Law School, *Wilson Center for Science and Justice*.
2020 Research Assistant, Duke Sociology, *Improving Life Chance Outcomes Project*.
2019-2020 Research Assistant, Duke Energy Initiative, *Bass Connections: Coal and America*.

TEACHING EXPERIENCE

2021, 2022 Teaching Assistant to Professor Curtis Taylor, *Intermediate Microeconomics II*.
2021 Teaching Assistant to Professor Peter Arcidiacono, *Intermediate Microeconomics II*.
2021 Teaching Assistant to Professor Jason Xu, *Mathematical Statistics*.
2021 Teaching Assistant for Duke Mathematics, *Linear Algebra and Differential Equations*.
2020 Teaching Assistant to Professor Thomas Nechyba, *Intermediate Microeconomics I*.
2020 Teaching Assistant for Duke Mathematics, *Multivariable Calculus*.

CONFERENCES AND PRESENTATIONS

2022 Society for Benefit-Cost Analysis.

TECHNICAL SKILLS

R, Python, Stata, Matlab, SAS, Git, Make, Slurm, LaTeX, Markdown.

HONORS AND AWARDS

2022 Allen Starling Johnson, Jr. Best Thesis Prize
2021 Phi Beta Kappa

OTHER EXPERIENCE

2021-2022 President, Duke Ethics and Global Citizenship Living-Learning Community.
2020-2022 Senior Editor, Equilibria: Duke Undergraduate Economics Review.
2021 Statistical Programming Intern, Acumen, LLC.
2020-2021 Member, Duke Environmental Justice Campus Committee.
2017-2021 Percussionist, Cadets Drum and Bugle Corps & GMU Indoor Drumline.