

# Vincent THORNE

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## EDUCATION

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- 2023 PH.D. IN ECONOMICS · Trinity College Dublin, Ireland  
*Advisors* Tara MITCHELL, Martina KIRCHBERGER & Carol NEWMAN
- 2022 VISITING GRADUATE SCHOLAR · London School of Economics, United Kingdom
- 2018 MASTER OF SCIENCE IN ECONOMICS · University of Barcelona, Spain  
*Advisor* Enrique LÓPEZ-BAZO  
*Exchange semester* University of Copenhagen, Denmark
- 2014 BACHELOR OF SCIENCE IN ECONOMICS · HEC University of Lausanne, Switzerland  
*Exchange year* University of Montana, United States

## JOB MARKET PAPER

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### Cycling Toward Cleaner Cities? Evidence from New York City's Bike Share Program

What is the impact of cycling infrastructure on air quality in cities? This paper leverages the staggered rollout of New York City's bike share program to estimate the effect of cycling on air pollution concentrations. I combine the universe of bike share trips with ground-level, high-resolution observational air pollution measures between 2010 and 2019. Through a routing algorithm, I use the location of bike share stations to map areas where road traffic is expected to decrease after the introduction of bike share. I compare these areas with others where traffic was likely unaffected using a staggered difference-in-differences strategy to retrieve causal estimates. I find that the deployment of bike share is associated with a 3% reduction in black carbon and 13% reduction in nitric oxide concentrations, both pollutants associated with road traffic. Valuation of the health benefits associated with the reduction in nitric oxide concentrations indicates that bike share decreased health and mortality costs by \$327 million. In addition, I investigate potential mechanisms and show that the introduction of bike share is associated with a decrease in short taxi trips in areas served by bike share, which I interpret as suggestive evidence that bike share substitutes road traffic.

## WORKING PAPERS

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### Conscientiousness and Labor Market Returns: Evidence from a Field Experiment in Senegal

joint with *Mathias Allemand, Martina Kirchberger, Sveta Milusheva, Carol Newman and Brent Roberts*

## WORK IN PROGRESS

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### Constructing Africa's Cities: Measuring and Enhancing Construction Worker Welfare in Dakar

joint with *Martina Kirchberger, Sveta Milusheva, Carol Newman*

### Female Labour Force Participation and Urban Transit: Evidence from the Washington Metro

joint with *Maximilian Günnewig-Mönert*

## RESEARCH AND TEACHING FIELDS

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- PRIMARY Urban Economics, Development Economics, Applied Microeconomics  
SECONDARY Spatial Economics, Environmental Economics, Labour Economics, Transport Economics

## SCHOLARSHIPS & AWARDS

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- 2021 Academic Research Fellowship 2020/2021 · TRINITY RESEARCH IN SOCIAL SCIENCES · €1,500  
2021–2023 Government of Ireland Postgraduate Scholarship · IRISH RESEARCH COUNCIL · €55,000  
2019, 2020 Department of Economics Ph.D. Scholarship · TRINITY COLLEGE DUBLIN · €32,000  
2018 School of Economics Summer School Scholarship · UNIVERSITY OF BARCELONA · €500  
2017 MOBINT Visiting Student · GOVERNMENT OF CATALONIA · €1,360

## CONFERENCES AND WORKSHOPS

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- 2022 European Meeting of the Urban Economics Association · Irish Economic Association Annual Conference · Trinity College PhD Working Group · Paris School of Economics Micro-mobility in Cities Workshop · Stockholm School of Economics “The economics of air pollution” Workshop
- 2021 ifo Dresden Workshop on Regional Economics · RIEF Doctoral Meetings in International Trade, International Macroeconomics and Urban Economics · Trinity College PhD Working Group · ECO-SOS Workshop on Economics and Sustainability: Transport challenges · Irish Postgraduates and Early Career Economist Workshop

## TEACHING EXPERIENCE

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- 2021, 2023 ECONOMY OF IRELAND, POLICY CHALLENGES  
Undergraduate level, Teaching Assistant, Trinity College Dublin
- 2020 ECONOMY OF IRELAND, HISTORICAL PERSPECTIVES  
Undergraduate level, Teaching Assistant, Trinity College Dublin
- 2020 MATHEMATICS AND STATISTICS B  
Undergraduate level, Teaching Assistant, Trinity College Dublin
- 2019 MATHEMATICS AND STATISTICS A  
Undergraduate level, Teaching Assistant, Trinity College Dublin

## RESEARCH EXPERIENCE

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- 2019–2021 Independent Researcher · KNOWLEDGE SHARING NETWORK, Barcelona, Spain
- 2018–2019 Research Assistant (Pre-doc) · INSTITUTIONS AND POLITICAL ECONOMY RESEARCH GROUP, Barcelona, Spain
- 2017 Research Assistant · UNIVERSITY OF BARCELONA, Barcelona, Spain

## PROFESSIONAL ACTIVITIES

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- 2022 Co-founder of the Young Irish Economists Seminar Series (YIESS)
- 2020–2021 Co-representative of PhD students to the Department of Economics, Trinity College Dublin

## LANGUAGES

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French (Native), English (Native), Spanish (Advanced), Catalan (Intermediate), German (Intermediate)

## COMPUTER SKILLS

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- Fluent in R (sf, terra, data.table, tidyverse, fixest, parallel computing)  
Stata  
QGIS, ArcGIS  
L<sup>A</sup>T<sub>E</sub>X, MS Office
- Intermediate Python (pandas, geopandas, web scrapping)
- Familiar with SQL, Git, Carto, HTML, CSS, JavaScript, Matlab, Adobe Illustrator

## REFERENCES

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