

# COLIN DAVISON

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## EDUCATION

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### University of Notre Dame

PhD, Economics

*Expected 2023*

MA, Economics

*2019*

### Miami University

BA, Economics, *summa cum laude*

*2015*

## RESEARCH INTERESTS

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Innovation Economics, Labor Economics, International Trade, Entrepreneurship

## JOB MARKET PAPER

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### [More Competition, Better Products: Evidence from a Novel Classification of Patents](#)

*Abstract:* This paper uses the text of patents and machine learning techniques to classify patents as product or process innovations. To examine the role of competition in shaping innovation, I combine this newly created data with plausibly exogenous variation in foreign import competition induced by large tariff cuts. Using a difference-in-differences strategy, I find that firms increase their product innovation in response to increased import competition but import competition has no effect on process innovation. Heterogeneity analysis provides evidence that the effect on product innovation is stronger for firms operating in industries with wider scope for product differentiation.

## WORKING PAPERS

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Knowledge Spillovers of Products and Processes

Resilient Innovation: Corporate Invention and Remote Work

Imports, Exports, and Employment: India's Trading Relationship with China

## WORK IN PROGRESS

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Compulsory Innovation: How Education Forms Inventors (with K. Doran and C. Yoon)

The Effect of Applied Science on Basic Research: Evidence from Clinical Trials (with K. Doran and I. Ganguli)

## RESEARCH EXPERIENCE

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### University of Notre Dame

Research Assistant to Professor Christopher Cronin

*Fall 2021-Fall 2022*

Research Assistant to Professor Kirk Doran

*Fall 2020*

Research Assistant to Professor Taryn Dinkleman

*Fall 2019-Spring 2020*

Research Assistant to Professor Ethan Lieber

*Spring 2019*

## TEACHING EXPERIENCE

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### University of Notre Dame

Instructor, Principles of Microeconomics

*Summer 2022*

Teaching Assistant, Principles of Microeconomics

*Spring 2021*

Teaching Assistant, Principles of Microeconomics

*Fall 2018*

### Miami University

Tutor, Economics and Calculus I

*Fall 2012-Spring 2013*

## TRAININGS

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**SKILLS**

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*Software:* Python (scikit-learn, NumPy, Pandas, NLTK, PySpark), R, SQL, C, STATA, L<sup>A</sup>T<sub>E</sub>X

*Database:* USPTO PatentViews, Google Patents, Compustat, PubMed

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**AWARDS AND SCHOLARSHIPS**

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**University of Notre Dame**

Kellogg Institute Doctoral Student Affiliate

*2020-2021*

Presidential Fellowship in Humanities and Social Sciences

*2018-2023*

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**REFERENCES**

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Kirk Doran (Chair)  
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William Evans  
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