

## CURRICULUM VITAE

David A. Rivers

### 1. Personal Information

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Social Science Center  
University of Western Ontario  
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Citizenship: USA, Canadian Permanent Resident

### *Current Position*

Associate Professor  
Department of Economics  
University of Western Ontario

### *Major Fields of Concentration*

Industrial Organization, Productivity, Economics of Crime, Applied Econometrics, Applied Microeconomics

### *Education*

Degree	Field	Institution	Year
Ph.D.	Economics	University of Wisconsin-Madison	2010
M.S.	Economics	University of Wisconsin-Madison	2007
B.S.	Economics, Mathematics and Philosophy <i>Magna Cum Laude</i> High Honors in Economics	Vanderbilt University	2001

### **Dissertation**

Title: Essays in Empirical Microeconomics  
Completion Date: August 2010

***Academic and Professional Experience***

July 2018 – present	Associate Professor of Economics, Department of Economics, University of Western Ontario
July 2021 – present	Director, Centre for Human Capital and Productivity (CHCP)
April 2019 – May 2019	Visiting Fellow, Collegio Carlo Alberto
July 2010 – June 2018	Assistant Professor of Economics, Department of Economics, University of Western Ontario
April 2012 – June 2012	Visiting Fellow, Collegio Carlo Alberto
Jan. 2006 – May 2009	Project Assistant, University of Wisconsin-Madison
Aug. 2001 – July 2004	Research Analyst/Associate, Charles River Associates, Washington, D.C.

***Academic Honors and Awards***

2016-2017	University Students' Council Teaching Honour Roll, University of Western Ontario
2015-2016	University Students' Council Teaching Honour Roll, University of Western Ontario
2012-2013	University Students' Council Teaching Honour Roll, University of Western Ontario
2011-2012	University Students' Council Teaching Honour Roll, University of Western Ontario
2010-2011	University Students' Council Teaching Honour Roll, University of Western Ontario
2009-2010	Alice Gengler Wisconsin Distinguished Fellowship in Economics, University of Wisconsin-Madison
2008	Christensen Award in Empirical Economics, University of Wisconsin-Madison
2007	Lerner Scholarship Award, University of Wisconsin-Madison
2004-2005	Wisconsin Alumni Research Foundation Fellowship, University of Wisconsin-Madison

- 2004-2005 Philip Loring Allen Fellowship, University of Wisconsin-Madison
- 2001 Phi Beta Kappa, Vanderbilt University

## 2. Research and Scholarly Activities

### *Publications*

#### (i) Articles in Refereed Journals

- Gandhi, Amit, Salvador Navarro, and David A. Rivers. "On the Identification of Gross Output Production Functions," *Journal of Political Economy*, 128(8), pp. 2973-3016.
- Mastrobuoni, Giovanni, and David A. Rivers. 2019. "Optimizing Criminal Behavior and the Disutility of Prison," *The Economic Journal*, 129(619), pp. 1364-1399.
- Mancino, Maria Antonella, Salvador Navarro, and David A. Rivers. 2016. "Separating State Dependence, Experience, and Heterogeneity in a Model of Youth Crime and Education," *Economics of Education Review*, 54, pp. 274-305.
- Durlauf, Steven N., Salvador Navarro, and David A. Rivers. 2016. "Model Uncertainty and the Effect of Shall-Issue Right-to-Carry Laws on Crime," *European Economic Review*, 81, pp. 32-67.
- Durlauf, Steven N., Salvador Navarro, and David A. Rivers. 2010. "Understanding Aggregate Crime Regressions," *Journal of Econometrics*, 158(2), pp. 306-317.
- Durlauf, Steven N., Salvador Navarro, and David A. Rivers. 2008. "On the Use of Aggregate Crime Regressions in Policy Evaluation," in *Understanding Crime Trends*, A. Goldberger and R. Rosenfeld eds., Washington DC: National Academies Press.

### *Unpublished Work*

#### (i) Articles Currently under Review at Refereed Journals

- Blum, Bernardo S., Sebastian Claro, Ignatius Horstmann, and David A. Rivers. "The ABCs of Firm Heterogeneity when Firms Sort into Markets: The Case of Exporters," *Revision Requested by the Journal of Political Economy*.
- Lester, Benjamin, David A. Rivers, and Giorgio Topa. "The Heterogeneous Impact of Referrals on Labor Market Outcomes," working paper.
- Lenzu, Simone, Joris Tielens, and David A. Rivers. "Financial Shocks, Productivity, and Prices", working paper.

Mastrobuoni, Giovanni, and David A. Rivers. “Criminal Discount Factors and Deterrence,” working paper. Featured by *The Economist*, March 29, 2016.

**(ii) Mimeo**

Gandhi, Amit, Salvador Navarro, and David A. Rivers. “How Heterogeneous is Productivity? A Comparison of Gross Output and Value Added,” working paper.

Rivers, David A. “Are Exporters More Productive than Non-Exporters?” working paper.

**(iii) Work in Progress**

Navarro, Salvador, and David A. Rivers. “Nonparametric Identification of Productivity in Nonseparable Production Functions.”

Blum, Bernardo, Sebastian Claro, Ignatius Horstmann, and David A. Rivers. “Ex-Post Merger Analysis using Production Data.”

Ramanarayanan, Ananth and David A. Rivers “Technology Choice, Capital Intensity, and Productivity.”

***Research Grants***

- |           |   |
|-----------|---|
| 2020-2025 | <p>“Empirical Methods and Analysis of Multidimensional Criminal Activity”<br/>         Role: Principal Investigator<br/>         Grant: Standard Research Grant<br/>         Grantor: Social Sciences and Humanities Research Council of Canada<br/>         Amount: CDN\$100,000<br/>         Responsibilities: Equal for all grant holders</p>                              |
| 2017-2022 | <p>“Empirical Methods for Studying Technical Efficiency, Productivity, and Competition”<br/>         Role: Co-investigator with Salvador Navarro<br/>         Grant: Standard Research Grant<br/>         Grantor: Social Sciences and Humanities Research Council of Canada<br/>         Amount: CDN\$137,000<br/>         Responsibilities: Equal for all grant holders</p> |
| 2016-2022 | <p>“Productivity, Firms and Incomes”<br/>         Role: Co-applicant<br/>         Grant: Partnership Grant<br/>         Grantor: Social Sciences and Humanities Research Council of Canada<br/>         Amount: CDN\$2,496,000</p>  |

- Responsibilities: Member of the Industry and Firm Analysis theme
- 2012-2017 “Empirical Methods for the Analysis of Production Functions and Productivity”  
 Role: Co-investigator with Salvador Navarro  
 Grant: Standard Research Grant  
 Grantor: Social Sciences and Humanities Research Council of Canada  
 Amount: CDN\$263,000  
 Responsibilities: Equal for all grant holders
- 2012-2014 “Patterns of Substitution and Complementarity in Crime”  
 Role: Principal Investigator  
 Grant: Insight Development Grant  
 Grantor: Social Sciences and Humanities Research Council of Canada  
 Amount: CDN\$28,000  
 Responsibilities: Full responsibility
- 2012 “On the Identification of Production Functions: How Heterogeneous is Productivity?”  
 Role: Principal Investigator  
 Grant: Internal Conference Travel Grant  
 Grantor: Social Sciences and Humanities Research Council of Canada  
 Amount: CDN\$1,300  
 Responsibilities: Full responsibility

### ***Presentations***

#### **(i) Invited Presentations**

- HEC Montreal-RIIB Conference on Industrial Organization (Montreal, QC) “The ABCs of Firm Heterogeneity: The Effects of Demand and Cost Differences on Exporting,” June 2019.
- Third Workshop on the Applications of Industrial Organization: Estimating Productivity (Montreal, QC) “The Determinants of Exporting: Domestic Demand, Foreign Demand, and Productivity,” September 2018.
- HCEO Conference on Crime and Inequality (Chicago, IL) “Criminal Discount Factors and Deterrence,” October 2017
- NBER Summer Institute on Law and Economics (Cambridge, MA), “Criminal Discount Factors and Deterrence,” July 2017
- Waterloo Economics Workshop (Waterloo, ON) “Criminal Discount Factors and Deterrence,” March 2017

Southern Economic Association (Washington, DC) “On the Identification of Production Functions: How Heterogeneous is Productivity?” November 2016

**(ii) Conference Presentations and Professional Meetings**

NASM Econometric Society (Virtual) “Financial Shocks, Productivity, and Prices,” June 2021

International Industrial Organization Conference (Virtual) “Financial Shocks, Productivity, and Prices,” May 2021

RCEA Growth, Innovation and Entrepreneurship Conference (Waterloo, ON) “Financial Shocks and Productivity: Pricing Response and the TFPR-TFPQ Bifurcation,” September 2019

Allied Social Sciences Association Meetings: Econometric Society Session (Atlanta, GA), “Nonparametric Identification of Productivity in Nonseparable Production Functions,” January 2019

Society of Labor Economics (Raleigh, NC) “Criminal Discount Factors and Deterrence,” May 2017

American Society of Criminology (New Orleans, LA) “Criminal Discount Factors and Deterrence,” November 2016

Canadian Law and Economics Association (Toronto, ON) “Criminal Discount Factors and Deterrence,” September 2016

Empirical Microeconomics Workshop (Banff, AB) “Criminal Discount Factors and Deterrence,” August 2016

NASM Econometric Society (Philadelphia, PA) “Criminal Discount Factors and Deterrence,” June 2016

Canadian Econometrics Study Group (Guelph, ON) “On the Identification of Production Functions: How Heterogeneous is Productivity?” September 2015

World Congress of the Econometric Society (Montreal, QC) “Model Uncertainty and the Effect of Shall-Issue Right-to-Carry Laws on Crime,” August 2015

Canadian Economic Association (Montreal, QC) “On the Identification of Production Functions: How Heterogeneous is Productivity?” June 2013

NASM Econometric Society (Evanston, IL) “On the Identification of Production Functions: How Heterogeneous is Productivity?” June 2012

Society for Economic Dynamics (Limassol, Cyprus) “On the Identification of Production Functions: How Heterogeneous is Productivity?” June 2012

International Industrial Organization Conference (Arlington, VA) “On the Identification of Production Functions: How Heterogeneous is Productivity?” March 2012

International Industrial Organization Conference (Boston, MA) “Are Exporters More Productive than Non-Exporters?” April 2009

**(iii) Conference Discussion**

HEC Montreal-Summer Conference on Industrial Organization (Montreal, QC) “Heterogeneous Firms: Skilled-Labor Productivity and the Destination of Exports,” by Jorge Balat, Irene Brambilla, and Yuya Sasaki, June 2022.

International Industrial Organization Conference (Virtual) “The Economics of Medical Procedure Innovation,” by David Dranove, Craig Garthwaite, Christopher Heard, and Bingxiao Wu, May 2021.

NBER Summer Institute on Crime (Cambridge, MA), “Do Handguns Make Us Safer? A State-level Synthetic Controls Analysis of Right-to-Carry Laws,” by John J. Donohue III, Abhay Aneja, and Kyle D. Weber, July 2015.

CIRPEE Conference on Industrial Organization (Montreal, QC), “A Structural Model of Demand, Cost, and Export Market Selection for Chinese Footwear Producers,” by Mark J. Roberts, Daniel Xu, Xiaoyan Fan, and Shengxing Zhang, July 2013.

Canadian Economic Association (Montreal, QC), “Identification and Counterfactuals in Dynamic Models of Market Entry and Exit,” by Victor Aguirregabiria and Junichi Suzuki, June 2013

International Industrial Organization Conference (Arlington, VA), “Prices, Markups and Trade Reform,” by Jan De Loecker, Pinelopi K. Goldberg, Amit K. Khandelwal, and Nina Pavcnik, March 2012

Allied Social Sciences Association Meetings: AEA Session (Denver, CO), “Export Entry and Exit: The Role of Capacity and Investment in Explaining Export Behavior,” by Bernardo Blum, Sebastian Claro, and Ignatius J. Horstmann, January 2011

**(iv) Seminar Presentations**

**“The ABCs of Firm Heterogeneity when Firms Sort into Markets: The Case of Exporters”**

2022	UNLV, Economics Department Seminar
2019	Collegio Carlo Alberto, Economics Department Seminar
2019	St. Louis Federal Reserve Bank, Research Seminar
2018	University of Georgia, Economics Department Seminar
2017	Bank of Canada, Research Seminar

2017 University of Kentucky, Economics Department Seminar

**“Model Uncertainty and the Effect of Shall-Issue Right-to-Carry Laws on Crime”**

2014 University of Toronto, Economics Department Seminar

**“On the Identification of Production Functions: How Heterogeneous is Productivity?”**

2012 Vanderbilt University, Economics Department Seminar

2012 University of Cambridge, Economics Department Seminar

2012 Collegio Carlo Alberto, Economics Department Seminar

2012 Aarhus University, Economics Department Seminar

2012 Tilburg University, Economics Department Seminar

2012 University of Michigan, Economics Department Seminar

**“Are Exporters More Productive than Non-Exporters?”**

2011 University of Calgary, Economics Department Seminar

2010 U.S. Department of Justice, Economics Department Seminar

2010 Federal Trade Commission, Economics Department Seminar

2010 University of Georgia, Economics Department Seminar

2010 University of Toronto, Economics Department Seminar

2010 University of Western Ontario, Economics Department Seminar

2010 University of Wisconsin-Madison, Economics Department Seminar

***Refereeing***

**(i) Journals**

*American Economic Journal: Applied Economics*

*American Economic Journal: Economic Policy*

*American Economic Journal: Microeconomics*

*American Journal of Agricultural Economics*

*B.E. Journal of Economic Analysis & Policy*

*Canadian Journal of Economics*

*Criminal Justice Review*

*Criminology*

*Econometrica*

*Economic Inquiry*

*Economic Journal*

*Economics Business Letters*

*Economics Letters*

*Economics of Education Review*

*European Economic Review*

*International Economic Review*



*International Journal of Industrial Organization*  
*Journal of Applied Econometrics*  
*Journal of Business and Economic Statistics*  
*Journal of Econometrics*  
*Journal of Economic Literature*  
*Journal of Economics & Management Strategy*  
*Journal of Human Resources*  
*Journal of Industrial Economics*  
*Journal of International Economics*  
*Journal of Labor Economics*  
*Journal of Law and Economics*  
*Journal of Mathematical Economics*  
*Journal of Political Economy*  
*Journal of Productivity Analysis*  
*Journal of Public Economics*  
*Journal of Quantitative Criminology*  
*Labour Economics*  
*Oxford Bulletin of Economics and Statistics*  
*RAND Journal of Economics*  
*Review of Economics and Statistics*  
*Review of Economics Studies*  
*Southern Economic Journal*

## **(ii) Research Foundations**

Social Sciences and Humanities Research Council of Canada  
 FWO—Research Foundation, Flanders, Belgium

## **3. Teaching, Mentoring and Advising**

### *Courses Taught*

#### **University of Western Ontario**

2021-2022	Economics 9609A-001	Advanced Methods in Applied Economics (PhD)
2020-2021	Economics 9609A-001 Economics 9634A-001	Advanced Methods in Applied Economics (PhD) Industrial Organization I – Empirical (PhD)
2019-2020	Economics 9609A-001 Economics 9634A-001	Advanced Methods in Applied Economics (PhD) Industrial Organization I – Empirical (PhD)
2017-2018	Economics 3362B-001 Economics 9600L-001	Empirical Industrial Organization (UG Honors) PhD Review – Econometrics

	Economics 9634B-001	Industrial Organization I – Empirical (PhD)
2016-2017	Economics 3362B-001 Economics 9600L-001 Economics 9634B-001	Empirical Industrial Organization (UG Honors) PhD Review – Econometrics Industrial Organization I – Empirical (PhD)
2015-2016	Economics 3362G-001 Economics 9600A-001 Economics 9634B-001	Empirical Industrial Organization (UG Honors) PhD Review - Econometrics Industrial Organization I - Empirical (PhD)
2014-2015	Economics 9600A-001 Economics 9634B-001	PhD Review – Econometrics Industrial Organization I - Empirical (PhD)
2013-2014	Economics 9600A-001	PhD Review - Econometrics
2012-2013	Economics 3362G-001 Economics 4400E-001 Economics 9600A-001 Economics 9634B-001	Empirical Industrial Organization (UG Honors) Senior Seminar in Economic Policy (UG Honors) PhD Review - Econometrics Industrial Organization I – Empirical (PhD)
2011-2012	Economics 3362G-001 Economics 9634A-001 Economics 9754A/9854A Economics 9755B/9855B	Empirical Industrial Organization (UG Honors) Industrial Organization I (PhD) Applied Economics/Econometrics Workshop (PhD) Applied Economics/Econometrics Workshop (PhD)
2010-2011	Economics 4496G-001 Economics 9634B-001	Special Topics – Economics (UG Honors) Industrial Organization I - Empirical (PhD)

### **University of Wisconsin-Madison - Teaching Assistant**

2008	Economics 310	Statistics: Measurement in Economics (UG)
2005-2006	Economics 101	Principles of Microeconomics (UG)

### ***Graduate Supervision***

#### **(i) Ph.D. Thesis Supervisor**

David Fieldhouse (co-supervisor)	“Essays on Innovation and Consumer Credit” Completed: 2014 Placement: Moody’s Analytics, Philadelphia
Zhuang Liu (co-supervisor)	“Essays on the Economics of Digital Piracy” Completed: 2019 Placement: Charles River Associates, Boston

Cecilia Diaz Campo	“Dynamic Moral Hazard in Nonlinear Health Insurance Contracts” Completed: 2022 Placement: Washington University in St. Louis, Olin Business School
Curtis Aquino (co-supervisor)	“Heterogeneity in Plant-Level Productivity and Importing Behavior”
Emmanuel Murray Leclair	“Input Efficiency and Discrete Energy Choice”
Charlotte Ursenbach	“Productivity Estimation with Nonclassical Measurement Error”
F. Javier Martinez Hernandez	“Knowledge Spillovers and the Evolution of Productivity”

**(ii) Ph.D. Thesis Committee Member**

Charles Gauthier	“Identification with Rationally Bounded Agents.” Completed: 2022
Aldo Sandoval Hernandez	“Essays on Firm Dynamics and International Trade” Completed: 2021 Placement: University of Sussex
Zinaida Kalinina-Foltin	“Peer Effects in MBA Class” Completed: 2021 Placement: Social Research and Demonstration Corporation
Diego Salazar	“Unraveling the Criminal Path: The Role of Punishment and Human Capital Accumulation in Explaining Criminal Trajectories.” Completed: 2020 Placement: National University of Singapore
Maria Antonella Mancino	“Understanding Transitions between Criminal and Legal Labor Markets” Completed: 2018 Placement: Wilfrid Laurier University
Wenya Wang	“Firm Investment Dynamics and Misallocation in China” Completed: 2017 Placement: Shanghai University of Finance and Economics

Kai Xu “Essays on International Trade”  
Completed: 2011  
Placement: Zhejiang University

**(iii) Ph.D. Summer Paper Advisor**

Emmanuel Murray Leclair “Asymmetric Environmental Regulation, Interfuel  
Substitution and Carbon Leakage”  
2020

Charlotte Ursenbach “Productivity Estimation with Nonclassical Measurement  
Error in Capital”  
2020

F. Javier Martinez Hernandez “Neighborhood-level Crime Deterrence in Mexico City”  
2020

Cecilia Diaz Campo “Dynamic Moral Hazard in Nonlinear Health Insurance  
Contracts”  
2018

Zhuang Li “Effects of File Sharing on Movie Box Office”  
2015

Andrew Naaum “Crime and Education by Gang Membership”  
2014

Diego Salazar “Thinking About Group Participation and Criminal  
Behavior”  
2014

Ekaterina Sharonova “Learning by Exporting: The Effect of Exports on Strategic  
Innovation Decisions and Productivity”  
2013

Olga Bilyk “Input Markets Frictions and Firm Performance in  
Transition Countries”  
2013

**(iv) Ph.D. Examining Board Participation**

Jun Hyun (Joseph) Ryoo “Essays on Information Asymmetry and Leakage”  
Ivey Business School, University of Western Ontario, 2021

Nhial Nathaniel Kuch	“Essays in Firm-level Productivity, Mortgage Policy Reform and Intellectual Property Protection” Queens University, 2021
Eduardo Ferraz	“Socially Optimal Crime and Punishment” Sao Paulo School of Economics – FGV, 2018
Angelos Theodorakopoulos	“Internationalisation and Firm Performance” Ghent University, 2017
Mihaela Alina Nastasoiu	“Evaluating Loyalty Programs with Endogenous Redemption” Ivey Business School, University of Western Ontario, 2016

#### 4. Service

##### *University Administrative Duties*

##### **(i) Department of Economics, University of Western Ontario**

Director, Centre for Human Capital and Productivity (CHCP)	2021-present
Member, Workload Committee	2021-2022
Member, Appointments Committee	2010-2011, 2011-2012, 2014-2015, 2019-2020
Director, Applied Economics/Econometrics Workshop	2011-2012, 2017-2018
PhD Comprehensive Exam Committee	2020-2021
Committee on Academic Policy	2019-2020
Member, Graduate Studies Awards Committee	2015-2016, 2016-2017, 2017-2018, 2020-2021, 2021- 2022 (chair)
Faculty Member-at-Large, Graduate Affairs Committee	2012-2013, 2014-2015, 2016-2017
Co-Director, Economics Alumni Portal	2012-2013

##### *Conference Organization*

North American Summer Meetings of the Econometric Society (Montreal, QC), <i>scientific committee member</i>	2021
International Association for Applied Econometrics Annual Conference (Rotterdam, The Netherlands), <i>scientific committee member</i>	2021
North American Productivity Workshop XI (Coral Gables, FL), <i>session organizer</i>	2020

International Association for Applied Econometrics Annual Conference (London, UK), <i>scientific committee member</i>	2020
International Association for Applied Econometrics Annual Conference (Nicosia, Cyprus), <i>scientific committee member</i>	2019
North American Winter Meetings of the Econometric Society (Atlanta, GA), <i>session organizer</i>	2019
Conference on Firm-level Productivity (London, ON), <i>co-organizer</i>	2014

### ***Press***

Mastrobuoni, Giovanni, and David A. Rivers. “Criminal Discount Factors and Deterrence,”  
working paper.

Featured by *The Economist*, March 29, 2016

Featured by *Indian Newslink*, July 12, 2017.

Mastrobuoni, Giovanni, and David A. Rivers. 2019. “Optimizing Criminal Behavior and the  
Disutility of Prison,” forthcoming, *The Economic Journal*.

Featured by *Marginal Revolution*, May 29, 2017.

Featured by *Quartz*, June 1, 2017.