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POSITIONS AND EDUCATION

ASSOCIATE PROFESSOR OF ECONOMICS, 2023 – PRESENT
Yale University, New Haven, CT, USA

ASSOCIATE PROFESSOR OF ECONOMICS, 2023
Boston University, Boston, MA, USA

ASSISTANT PROFESSOR OF ECONOMICS, 2017 – 2023
Boston University, Boston, MA, USA

FACULTY RESEARCH FELLOW, ECONOMIC FLUCTUATIONS & GROWTH (EFG); LABOR STUDIES (LS), 2020 – PRESENT
National Bureau of Economic Research, Cambridge, MA, USA

COWLES FOUNDATION FELLOW, 2016–2017
Yale University, New Haven, CT, USA

PHD IN ECONOMICS, 2011–2016
Massachusetts Institute of Technology, Cambridge, MA, USA

UNDERGRADUATE DEGREE IN ECONOMICS AND MATHEMATICS, 2005–2010
Universidad de los Andes, Bogotá, Colombia

WORKING PAPERS

1. Not a Typical Firm: Capital-labor Substitution and Firms' Labor Shares.
With Joachim Hubmer. *R&R at AEJ: Macroeconomics*

2. Optimal Gradualism.
With Nils H. Lehr.

3. Automation and Rent Dissipation: Implications for Inequality, Productivity, and Welfare.
With Daron Acemoglu.

PEER-REVIEWED PUBLICATIONS

1. Uneven Growth: Automation's Impact on Income and Wealth Inequality. 2022. *Econometrica*.
With Ben Moll and Lukasz Rachel.

2. Tasks, Automation, and the Rise of US Wage Inequality. 2022. *Econometrica*
With Daron Acemoglu.

3. AI and Jobs: Evidence from Online Vacancies. 2022. *Journal of Labor Economics*
With Daron Acemoglu, David Autor and Joe Hazell.

4. Demographics and Automation. 2022. *Review of Economic Studies*
With Daron Acemoglu.

5. Scarcity Without Leviathan: The Violent Effects of Cocaine Supply Shortages in the Mexican Drug War. 2020. *Review of Economics and Statistics*.
With Juan Camilo Castillo and Daniel Mejia.

6. Democracy Does Cause Growth. 2020. *Journal of Political Economy*.
With Daron Acemoglu, Suresh Naidu and James Robinson.

7. Robots and Jobs: Evidence from US Local Labor Markets. 2019. *Journal of Political Economy*.
With Daron Acemoglu.

8. The Race Between Man and Machine: Implications of Technology for Growth, Factor Shares and Unemployment. 2018. *American Economic Review*.
With Daron Acemoglu.

9. Regulatory Protective Measures and Risky Behavior: Should We Be Saved from Ourselves? 2017. *Journal of Public Economics*.
With Alberto Chong.

10. On the Effects of Enforcement on Illegal Markets: Evidence from A Quasi Experiment in Colombia. 2017. *World Bank Economic Review*.
With Daniel Mejia and Sandra Rozo.

11. The Economics of the War on Illegal Drug Production and Trafficking. 2016. *Journal of Economic Behavior and Organizations*.
With Daniel Mejia.

12. Crime and Conspicuous Consumption. 2016. *Journal of Public Economics*.
With Daniel Mejia.

NON-REFEREED AND INVITED PUBLICATIONS, CHAPTERS, AND OTHER WRITINGS

1. Automation Technology and its Impact on Labor Markets. 2024 *Annual Review of Economics*.

2. Advanced Technology Adoption: Selection or Causal Effects? 2023. *AEA, Papers and Proceedings*.
With Daron Acemoglu, Gary Anderson, David Beede, Catherine Buffington, Eric Childress, Emin Dinlersoz, Lucia Foster, Nathan Goldschlag, John Haltiwanger, Zachary Kroff and Nikolas Zolas.

3. Automation and the Workforce: A Firm-Level View from the 2019 Annual Business Survey. 2022. *CRIW Conference on Technology, Productivity, and Economic Growth*.
With Daron Acemoglu, Gary Anderson, David Beede, Catherine Buffington, Eric Childress, Emin Dinlersoz, Lucia Foster, Nathan Goldschlag, John Haltiwanger, Zachary Kroff and Nikolas Zolas.

4. Does the US Tax Code Favor Automation? 2020. *Brookings Papers in Economic Activity*.
With Daron Acemoglu and Andrea Manera.

5. Unpacking Skill Bias: Automation and New Tasks. 2020. *AEA, Papers and Proceedings*.
With Daron Acemoglu.

6. Competing with Robots: Firm-level Evidence from France. 2020. *AEA, Papers and Proceedings.*

With Daron Acemoglu and Claire Lelarge.

7. Automation and New Tasks: How Technology Displaces and Reinstates Labor. 2019. *Journal of Economic Perspectives.*

With Daron Acemoglu.

8. Modeling Automation. 2018. *AEA, Papers and Proceedings.*

With Daron Acemoglu.

9. Low-skill and High-skill Automation. 2018. *Journal of Human Capital.*

With Daron Acemoglu.

10. Artificial Intelligence, Automation and Work. 2017. *The Economics of Artificial Intelligence, NBER*

With Daron Acemoglu.

11. Secular Stagnation? The Effect of Aging on Economic Growth in the Age of Automation. 2017. *American Economic Review, Papers and Proceedings.*

With Daron Acemoglu.

12. Democracy, Redistribution and Inequality. 2014 *Handbook of Income Distribution.*

With Daron Acemoglu, Suresh Naidu and James Robinson.

13. Why is Strict Prohibition Collapsing? 2014. *Ending the Drug Wars, Report of the LSE Expert Group on the Economics of Drug Policy.*

With Daniel Mejia.

14. The War on Illegal Drugs in Producer and Consumer Countries: A Simple Analytical Framework. 2011. *Illicit Trade and the Global Economy.* With Daniel Mejia.

15. Un Recorrido por la Combinatoria. 2010. (A Pathway Through Combinatorics)—math book on problem solving written in Spanish published by *Universidad Antonio Narino, Bogota Colombia.*

PROFESSIONAL ACTIVITIES AND REFEREEING AWARDS

Associate Editor, *Journal of the European Economic Association*, 2021–2024.

Program Committees: *Econometric Society World Congress*, 2025; *2024 ESIF Economics and AI+ML Meeting*, 2024; *Labor and Employment Relations Association, ASSA Meeting*, 2022–2024; *SOLE Summer Meeting*, 2021.

Guest Editor, special issue “Technology and the Labour Market,” *Labour Economics*, 2019.

Excellence in refereeing awards: *AER: Insights*, 2021, 2022; *Review of Economic Studies*, 2020, 2022; *American Economic Review*, 2018.

AWARDS, ACADEMIC ACHIEVEMENTS, AND GRANTS

- 2021 Grant **National Science Foundation**—Technology, Automation and Inequality (PI)
- 2018 Grant **Banque de France**—Estimating the Productivity of Robots using Microdata (PI)
- 2009 First Prize, International Mathematics Competition for University Students.
- 2005 International Mathematical Olympiad Silver and Bronze Medalist.
- 2005 Clay Mathematics Research Academy, Boston.