

Nathan Goldschlag

Director of Research
Economic Innovation Group

Email: nathan@eig.org
Web: ngoldschlag.github.io

Education

Ph.D., Department of Economics, George Mason University, 2015

B.A., Economics, University of Central Florida, 2008

Employment

Economic Innovation Group

Director of Research, 2025-Present

United States Census Bureau, Center for Economic Studies

Principal Economist, 2022-2025

Senior Economist, 2016-2022

Economist, 2014-2016

United States Census Bureau, Economic Directorate

Business Analyst, 2008-2014

Publications

14. Measuring the Characteristics and Employment Dynamics of U.S. Inventors, 2025. *Journal of Economic Growth*. (with Ufuk Akcigit)
13. Firm Growth and Stagnation in the United States: Key Trends and New Data Opportunities, 2025. *Strategic Management Journal*. (with Joonkyu Choi, John Haltiwanger, and J. Daniel Kim)
12. Early Joiners and Startup Performance, 2025. *Review of Economics and Statistics*. (with Joonkyu Choi, John Haltiwanger, and J. Daniel Kim)
11. A Simulated Reconstruction and Reidentification Attack on the 2010 U.S. Census, 2025. *Harvard Data Science Review*. (with Abowd, Adams, Ashmead, Darais, Dey, Garfinkel, Kifer, Leclerc, Lew, Moore, Rodríguez, Tadros, and Vilhuber)
10. Robot Hubs and the Use of Robotics in U.S. Manufacturing Establishments, 2025. *AEA Papers and Proceedings*. (with Erik Brynjolfsson, Catherine Buffington, J. Frank Li, Javier Miranda, and Robert Seamans)
9. The Impact of AI on the Workforce: Tasks versus Jobs, 2024. *Economics Letters*. (with Bonney, Breaux, Buffington, Dinlersoz, Foster, Haltiwanger, Kroff, Savage)

8. Advanced Technology Adoption: Selection or Causal Effects?, 2023. *AEA Papers and Proceedings*. (with Acemoglu, Beede, Childress, Dinlersoz, Foster, Haltiwanger, Kroff, Restrepo, Zolas)
7. Robot Hubs: The Skewed Distribution of Robots in U.S. Manufacturing, 2023. *AEA Papers and Proceedings*. (with Erik Brynjolfsson, Catherine Buffington, J. Frank Li, Javier Miranda, and Robert Seamans)
6. An In-Depth Examination of Requirements for Disclosure Risk Assessment, 2023. *Proceedings of the National Academy of Sciences*. (with Jarmin, Abowd, Ashmead, Cumings-Menon, Hawes, Keller, Kifer, Leclerc, Reiter, Rodríguez, Schmutte, Velkoff, Zhuravlev)
5. Business Dynamics of High Tech Businesses, 2020. *Journal of Economics & Management Strategy*. (with Javier Miranda)
4. Tracking the Technological Composition of Industries with Algorithmic Patent Concordances, 2020. *Economics of Innovation and New Technology*. (with Travis Lybbert and Nikolas Zolas)
3. Proximity and Economic Activity: An Analysis of Vendor-University Transactions, 2019. *Journal of Regional Science*. (with Julia Lane, Bruce Weinberg, and Nikolas Zolas)
2. Is regulation to blame for the decline in American entrepreneurship?, 2018. *Economic Policy*. (with Alex Tabarrok)
1. Wrapping it up in a person: Examining employment and earnings outcomes for Ph.D. recipients, 2015. *Science*. (with Zolas, Jarmin, Stephan, Owen-Smith, Rosen, Allen, Weinberg, & Lane)

Book Chapters

5. Automation and the Workforce: A Firm-Level View from the 2019 Annual Business Survey, forthcoming. In *Technology, Productivity, and Economic Growth*. (with Acemoglu, Beede, Childress, Dinlersoz, Foster, Haltiwanger, Kroff, Restrepo, Zolas)
4. Research Experience as Human Capital in New Business Outcomes, 2018. In *Measuring and Accounting for Innovation in the 21st Century*. (with Ron Jarmin, Julia Lane, and Nikolas Zolas)
3. An Anatomy of U.S. Firms Seeking Trademark Registration, 2018. In *Measuring and Accounting for Innovation in the 21st Century*. (with Emin Dinlersoz, Amanda Myers, and Nikolas Zolas)
2. The Conceptual and Empirical Framework, 2017. In *Pathways to Research Impact: The Case of Food Safety*. (with Julia Lane, Bruce Weinberg, and Nikolas Zolas)
1. Is Entrepreneurship in Decline? 2015. In *Understanding the Growth Slowdown* (pp. 169-187). Washington DC: Cato Institute Press. (with Alex Tabarrok)

Working Papers & Technical Notes

12. Growth is Getting Harder to Find, Not Ideas, 2025. CES WP No. 25-21. (with Teresa C. Fort, Jack Liang, Peter K. Schott, and Nikolas Zolas)
11. Surname Identifiers in the 2000 and 2010 Decennial Census Data, 2024. CES Technical Notes Series No. 24-07.
10. Tracking Firm Use of AI in Real Time: A Snapshot from the Business Trends and Outlook Survey, 2024. NBER w32319. (with Bonney, Breaux, Buffington, Dinlersoz, Foster, Haltiwanger, Kroff, Savage)
9. Where Have All the "Creative Talents" Gone? Employment Dynamics of US Inventors, 2023. NBER w31085. (with Ufuk Akcigit)
8. On The Role of Trademarks: From Micro Evidence to Macro Outcomes, 2023. CES WP No. 23-16. (with Emin Dinlersoz, Mehmet Yorukoglu, and Nikolas Zolas)
7. The Characteristics and Geographic Distribution of Robot Hubs in U.S. Manufacturing Establishments, 2023. CES WP No. 23-14. (with Erik Brynjolfsson, Catherine Buffington, J. Frank Li, Javier Miranda, and Robert Seamans)
6. Imputing Establishment Robotics Data: I'm Afraid I Can't Do That, 2022. CES Technical Notes Series No. 22-07. (with Antonio Jones, Javier Miranda, and Justin Z. Smith)
5. Redesigning the Longitudinal Business Database, 2021. CES WP No. 21-08. (with Melissa Chow, Teresa Fort, Christopher Goetz, James Lawrence, Elisabeth Perlman, Martha Stinson, and T. Kirk White)
4. Advanced Technologies Adoption and Use by U.S. Firms: Evidence from the Annual Business Survey, 2020, CES WP No. 20-40, NBER w28290. (with Nikolas Zolas, Zachary Kroff, Erik Brynjolfsson, Kristina McElheran, David Beede, Catherine Buffington, Lucia Foster and Emin Dinlersoz)
3. Building a Better Bridge: Improving Patent Assignee-Firm Links, 2018. CES Technical Notes Series No. 18-01. (with Dreisigmeyer, Krylova, Ouyang, and Perlman)
2. Squeezing More Out of Your Data: Business Record Linkage with Python. CES Working Paper No. 18-46 (with John Cuffe)
1. Just Passing Through: Characterizing U.S. Pass-Through Business Owners, 2017. CES Working Paper No. 17-69. (with J. Daniel Kim and Kristin McCue)

Professional Activities

Presentations (selected)

01/2024 AEA, San Antonio, "Where Have All the Creative Talents Gone?"

10/2023 US DOJ, Antitrust Division, "Where Have All the Creative Talents Gone?"

01/2023 USPTO Office of the Chief Economist “Characteristics & Employment Dynamics of US Inventors”

06/2021 Canadian Economic Assoc Meeting, “Robot Adoption and Worker Exposure”

06/2021 Brookings, “Using Census Data to Study Business Dynamics”

05/2019 CAED, Ann Arbor, “Growth and Survival of Startups: Role of Founding Teams”

01/2018 AEA, Philadelphia, “Business Dynamics of Innovative Firms”

03/2017 NBER CRIW, Washington D.C., “The Anatomy of Trademarking by Firms in the United States”

Census Bureau Service (selected)

Mentor and instructor for Census Data Science programs

Census Bureau delegate to OECD Working Party on Industry Analysis

Re-engineering of microdata infrastructure for the Business Dynamics Statistics and Longitudinal Business Database program

Development of business survey questions on *Technology Adoption and the Work Force*

Development of new microdata linkages between Census data and patent and trademark data

Development of aggregate statistics on High Tech industries

Development of aggregate statistics on High Growth Firms

Development of new microdata linkages between Census data and university researchers and research expenditures (UMETRICS)