

# JOSHUA WILDE

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## Contact Information:

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## Current Affiliations/Positions/Activities (\*Denotes Primary Employment)

- \*Deputy Head, Laboratory of Fertility and Well-Being, *Max Planck Institute for Demographic Research*, 2022-Present
- \*Research Scientist, *Max Planck Institute for Demographic Research*, 2019-Present
- Research Scientist, Population Research Center, *Portland State University*, 2022-Present
- Courtesy Professor of Economics, *Portland State University*, 2022-Present
- Editor, *Population and Development Review*, 2022-Present
- IUSSP Panel Chair, *Covid-19, Fertility, and the Family*, 2022-Present
- Research Fellow, *Institute of Labor Economics (IZA)*, 2019-Present

## Former Employment

- Assistant Professor of Economics, University of South Florida, 2011-2019
- Short Term Consultant, World Bank -- Demographic Dividend in Africa. 2013

## Education

- Ph.D. Economics, Brown University, 2011
- M.A. Economics, Brown University, 2006
- B.A. Economics, Brigham Young University, 2004

## Research Fields and Interests

Economics sub-fields: Labor/Demography, Development, Health, Economic Growth/Macroeconomics  
Demography/Sociology sub-fields: Fertility, Digital and Computational Demography, Family Demography

Topics of Interest: Climate Change and Fertility, Infectious Disease and Fertility (primarily COVID-19 and Malaria), Demographic Dividend, Gender (Particularly as it relates to Missing Women, Sex ratios at birth, and the Demographic Dividend).

## Published and Forthcoming

### Peer-Reviewed Journal Articles:

- Wilde, Joshua, Wei Chen, Sophie Lohmann, and Jasmin Abdel Ghany. 2023. "Digital Trace Data and Demographic Forecasting: Did Google Predict the US COVID-19 Baby Bust?" *Population and Development Review* (Conditionally Accepted, Pandemic Babies Special Issue)
  - Earlier version distributed as "COVID-19 and the Future of US Fertility: What Can We Learn from Google?" [IZA Discussion Paper No. 13776](#)
- Wilde, Joshua, Benedicte Apouey, Gabriel Picone and Joseph Coleman. 2022. "The Effect of Antimalarial Campaigns on Child Mortality and Fertility in sub-Saharan Africa," *Demography* (Conditionally Accepted).
- Tewari, Ishani and Joshua Wilde. 2019. "Multiproduct Firms, Product Scope and Productivity: Evidence from India's Product Reservation Policy," *Southern Economic Journal*, 86(1): 339-362.
- Wilde, Joshua, Benedicte Apouey, and Toni Jung. 2017. "The Effect of Ambient Temperature Shocks During Conception and Early Pregnancy on Later Life Outcomes," *European Economic Review*. 97C: 87-107.
  - **Winner of the 2017 IPUMS International Faculty Research Award**
- Karra, Mahesh, David Canning, and Joshua Wilde. 2017. "The Effect of Fertility Decline on Economic Growth in Africa: A Macrosimulation Model," *Population and Development Review*. 43(S1): 237-263.
- Apouey, Benedicte, Gabriel Picone, Joshua Wilde, Joseph Coleman, and Robyn Kibler. 2017. "Malaria and Anemia among Children in sub-Saharan Africa: The Effect of Mosquito Bednet Distribution," *Revue Economique*. 68: 163-197.
- Ashraf, Quamrul, David Weil, and Joshua Wilde. 2013. "The Effect of Fertility Reduction on Economic Growth," *Population and Development Review*, 2013. 39(1): 97-130.
- Weil, David and Joshua Wilde. 2009. "How Relevant is Malthus for Economic Development Today?" *American Economic Review*. 99(2): 255-60.

### Book Chapters / Edited Volumes:

- Apouey, Benedicte, Gabriel Picone, Joshua Wilde. 2018. "The Economics of Malaria Prevention" in *Oxford Research Encyclopedia of Economics and Finance*, reprinted in *Oxford Handbook of Health Economics*, Oxford University Press.
- Canning, David, David Locke Newhouse, Parfait Eloundou-Enyegue, Yoonyoung Cho, Bienvenue Tien, David Robalino, Claudia Wolff, Joshua Wilde, and Mahesh Karra. 2015. "Economic Effects of the Demographic Dividend" in *Africa's Demographic Transition: Dividend or Disaster?* eds. David Canning, Sangeeta Raja, and Abdo S. Yazbeck. *Africa Development Forum series*. Washington, DC: World Bank
- Muttarak, Raya and Joshua Wilde. 2022. "Introduction" in *The World at 8 Billion*, edited by Raya Muttarak and Joshua Wilde, 1-2. New York: Population Council.

## Non-Peer Reviewed Journal Publications

- Muttarak, Raya and Joshua Wilde. 2022. "Editors Note," *Population and Development Review*, 48(4): 919-920.
- Muttarak, Raya and Joshua Wilde. 2022. "Introduction to the June 2022 Issue of Population and Development Review," *Population and Development Review*, 48(2): 275-277.
- Muttarak, Raya and Joshua Wilde. 2022. "A Note from the New Editors," *Population and Development Review*, 48(1): 7-8.

## Book Reviews:

- Wilde, Joshua. 2022. "Skirbekk, Vegard, Decline and Prosper! Changing Global Birth Rates and the Advantages of Fewer Children. Springer International Publishing, 2022." *Population and Development Review*, 48(3): 892-895.
- Wilde, Joshua. 2022. "Lam, David and Ahmed Elsayed, Labour Markets in Low-Income Countries: Challenges and Opportunities. Oxford University Press, 2021." *Population and Development Review*, 48(2): 261-264.

## Working Papers (can be found online as preprints, or under review)

- Wilde, Joshua. How Substitutable are Fixed Factors in Production? Evidence from Pre-industrial England.
  - Revise and Resubmit, *Journal of Economic Growth*
- Natural Disasters and Fertility: A Systematic Literature Review (with Susie Lee, Ewa Batrya, and Andres Castro)
  - Revise and Resubmit, *Proceedings of the Royal Society B-Biological Sciences*
- Economic Foundations of Contraceptive Transitions: Theories and a Review of the Evidence (with Mahesh Karra)
  - Submitted to special issue of *Population and Development Review*
- Was There a US COVID-19 Baby Bust? An Analysis of Unexpectedly Early COVID-19 US Birth Declines (with Jasmin Abdel Ghany and Mikko Myrskylä)
  - Under Review, *Proceedings of the National Academy of Sciences*
- Measuring the Economic Costs of Women's Exclusion and the Benefits from Closing Gender Gaps: Evidence from a Macrosimulation Model of the Gender Dividend (with Wendy Cunningham, Sarika Gupta, Mitja Del Bono, and Mahesh Karra)
  - Under internal review at the World Bank, working paper version available soon.

## Works in Progress (not yet released as preprints, nor under review)

- Climate Change and Fertility in LMICs: The Role of Ambient Temperature (with Anna Dimitrova, Raya Muttarak, and Jasmin Abdel Ghany)
  - Analysis completed, draft in preparation
- Climate Change and Fertility: Evidence from Spain (with Risto Conte and Marco Cozzani)
  - Analysis completed, draft in preparation
- Climate Change and Sex Ratios at Birth (with Jasmin Abdel Ghany, Anna Dimitrova, Raya Muttarak, and Ridhi Kashyap)

- Analysis completed, draft in preparation
- Temperature, Sexual Behavior, and the Internet: What Can We Learn From Google Searches? (with Wei Chen and Sophie Lohmann)
  - Analysis completed, draft in preparation
- Savings and the Demographic Dividend: Evidence from a Macrosimulation Model (with Mahesh Karra)
  - Analysis completed, draft in preparation
- Twenty-Five Years of the Demographic Dividend: A Critical Reflection and Beyond (with Mahesh Karra)
  - Draft in Preparation for special issue of *Population and Development Review*
- Revising Natural Sex Ratios at Birth for Male Fragility (with Mikko Myrskylä, Kieron Barclay, Jessica Hellstrand, Peng Li, and Oystein Kravdal)
  - Analysis completed, draft in preparation
- Abortion Laws and Sex Ratios at Birth: Evidence from Ceaușescu's Decree 770 (with Stefani Milovanska)
  - Analysis completed, draft in preparation
- Sex Ratios at Birth and the Covid-19 Pandemic in the US (with Jasmin Abdel Ghany)
  - Analysis completed, draft in preparation
- How Missing Men Lead to Missing Women: Revising Global Estimates of Missing Women for the Fragile Male (with Jasmin Abdel Ghany)
  - Analysis Underway
- Still Divided: Differences in the Covid-19 Pandemic Fertility Response Between East and West Germany (with Zuzanna Brzozowska and Natalie Nitsche)
  - Reconceptualizing

### Editorial Activities

- Editor-in-Chief (with Raya Muttarak): *Population and Development Review*, Jan 2022-
- Guest Co-Editor: *Population and Development Review*, Special Issue on "Pandemic Babies: The Covid-19 Pandemic and Its Impact on Fertility and Family Dynamics"

### Honors, Awards, and Grants

- Best Poster Award -- UAPS 8th African Population Conference, 2019
- IPUMS International Faculty Research award for paper "The Effect of Ambient Shocks During Conception and Early Pregnancy on Later Life Outcomes," 2017.
- Population Reference Bureau (PRB) -- PopPov Communicating Research Grant. \$18,258.53. "Developing the Canning-Karra-Wilde Model Estimates for African Countries." PI Joshua Wilde. 1/1/2017-7/14/2017.
- USF CAS Internal Award -- \$1000 (Spring 2015)
- USF CAS Internal Award -- \$1500 (Spring 2014) (Declined)
- USF International Travel Grant -- \$2100 (Spring 2014)
- USF International Travel Grant -- \$1678 (Spring 2013)
- Hewlett/IIE Dissertation Fellowship in Population, Reproductive Health, and Economic Development (2009-2011)
- Merit Dissertation Fellowship, Brown Economics Department (Declined) (Fall 2009)
- Umezawa-Stoltz Prize for outstanding 3rd year paper, Brown Economics Department (2008)

- Susan R. Kamins Fellowship, Brown Economics Department (2006-2007)
- Brown Graduate School Fellowship (2005-2006)
- Brigham Young University Scholarship (1998-1999, 2001-2004)

## Media Coverage

New York Times, BBC, CNN, The Wall Street Journal, The Economist, The Financial Times, The Atlantic, The Telegraph, Brookings, The Independent, USA Today, Le Monde, Yahoo Finance, Reuters, Nasdaq.com, Freakonomics Blog, Pew, La Presse, Tampa Bay Times, Le Devoir, The IZA blog, VoxTalks, Die Zeit, Die Welt, plus over 200 other local German news outlets.

## Referee Service (in alphabetical order)

Demography/Sociology Journals (8): Demographic Research, Demography, Population, Population and Development Review, Population and Environment, Population Research and Policy Review, Population Studies, Studies in Family Planning

Economics Journals (18): American Journal of Health Economics, China Economics Review, Economics and Human Biology, Economic Inquiry, International Economic Review, IZA World of Labor, Journal of Behavioral and Experimental Economics, Journal of Development Economics, Journal of Economic Growth, Journal of Economic Behavior and Organization, Journal of Health Economics, Journal of Human Resources, Journal of Population Economics, Journal of the European Economic Association, Macroeconomic Dynamics, Review of Development Economics, Southern Economic Journal, The B&E Journal of Economic Analysis and Policy

General Scientific/Other Journals (4): Global Environmental Change, The Lancet Planetary Health, PLOS One, Proceedings of the National Academy of Sciences (PNAS)

Other Referee (4): National Science Foundation (ad hoc), Population Reference Bureau, Fondazione Cariplo, Fonds de la Recherche Scientifique (FNRS)

## Conferences and Presentations

- 2023 – University of Oxford (Oxford, Scheduled), 14th Global Meeting of the NTA Network (Paris, Scheduled), PAA Annual Meeting (New Orleans, Scheduled)
- 2022 – AEA Annual Meeting (Boston/Virtual), PAA Annual Meeting (Atlanta), European Population Conference (Groningen), IUSSP 3-Panel Meeting on Contraceptive Transition Theories, (Funchal), International Conference on Family Planning (Pattaya City), University of St Andrews PHRG (St. Andrews), Max Planck Institute for Demographic Research (Rostock), PAA International Outreach Committee Webinar on Publishing International Research (Virtual), EAPS Working Group on Register-Based Fertility Research (Rostock)
- 2021 – PAA Applied Demography Conference (Virtual), PAA Annual Meeting (St. Louis/Virtual), University of Southampton, American Society of Health Economists (ASHEcon) Annual Meeting (Virtual, Scheduled), Max Planck Institute for Demographic Research (Rostock), Max Planck Florida Institute of Neuroscience (Virtual), Pandemic Babies? The Covid-19 Pandemic and Its Impact on Fertility and Family Dynamics (Berlin/Virtual), IUSSP International Population Conference (Hyderabad, Virtual)

- 2020 – Max Planck Institute for Demographic Research (Rostock, Multiple), University of Manitoba (Winnipeg/Remote), INED (Paris/Remote), Wittgenstein Centre Conference 2020 (Vienna/Remote), 2nd IUSSP Population, Poverty and Inequality Research Conference (Paris/Remote), Register-Based Fertility Research Network Annual Meeting (Rostock, Remote)
- 2019 – PAA Annual Meeting (Austin), Wittgenstein Centre Conference 2019 (Vienna), 8th African Population Conference (Entebbe), UAPS Workshop on Labor Productivity and Fertility – Using the Canning-Karra-Wilde Model (Entebbe), 4th Population Health Science Research Workshop (Philadelphia)
- 2018 – Max Planck Institute for Demographic Research (Rostock, Germany), AEA Annual Meeting (Philadelphia, Discussant), PAA Annual Meeting (Denver, Discussant), Workshop in Applied and Theoretical Economics (WATE) (Orlando), Population Health Science Research Workshop, Boston University (Boston)
- 2017 – AEA Annual Meeting (Chicago), PAA Annual Meeting (Chicago), AEAA (Agricultural and Applied Economics Association) Annual Meeting (Chicago), University of North Dakota (Grand Forks), IUSSP International Population Conference (Cape Town), Canning-Karra-Wilde Model Workshop: Implications for African Development, Harvard University (Boston)
- 2016 – USF, SEA Annual Meeting (Washington DC), 10th PopPov Conference (Washington DC), PopPov Workshop: Modelling Karra-Canning-Wilde Multisectoral Pathways to the Demographic Dividend (Washington DC)
- 2015 – 7th African Population Conference (Johannesburg), SEA Annual Meeting (New Orleans), Cornell University, NEUDC (Providence), 3rd IZA Workshop: Labor Market Effects of Environmental Policies (Berlin), 9th PopPov Conference (Addis Ababa), PAA Annual Meeting (San Diego), CSAE (Oxford)
- 2014 – PAA Annual Meeting (Boston), CSAE (Oxford), Williams College, 8th PopPov Conference (Nairobi), AEA Annual Meeting (Philadelphia)
- 2013 – SEA Annual Meeting (Tampa), Brown University, NEUDC (Harvard), USF, IUSSP International Population Conference (Busan), MWIEDC (Madison), PACDEV (San Francisco), 7th PopPov Conference (Oslo)
- 2012 – World Bank, EEA (Boston), USF, 6th PopPov Conference (Accra), AEA Annual Meeting
- 2011 and earlier – NEUDC (Yale), University of South Florida (multiple), IFPRI, BEA (Bureau of Economic Analysis), Brigham Young University, NEUDC (MIT), Brown University (Multiple), 4th PopPov Conference (Cape Town), IUSSP Seminar on Demographics and Macroeconomic Performance (Paris)

### **Webinars / Online Panels**

- *Using Digital Data for Research (working title)*. Sponsored by the Population Reference Bureau. February 28, 2023.
- *Webinar on Publishing International Research*. Sponsored by the Population Association of America (PAA) International Outreach Committee. December 7<sup>th</sup>, 2022.
- *Publishing in Demography Journals: Reflections from the Editors of Population and Development Review*. Joint with University of St Andrews PHRG and the Max Planck Institute for Demographic Research. October 11<sup>th</sup>, 2022.

## Teaching Experience

### Max Planck Institute for Demographic Research

- Population Health (Graduate Level), “Global Population Health” module.

### University of South Florida:

- ECO3203 -- Intermediate Macroeconomics (Undergraduate -- Textbook: Mankiw)
- ECO7207 -- Macroeconomics II (Graduate -- Textbook: Romer)
- ECO6405 -- Mathematical Economics I (Graduate -- Textbook: Simon and Blume)

### Brown University:

- Math Camp (for Incoming Economics Grad Students), Instructor
- Macroeconomics II (Graduate Level), Teaching Assist. to Prof. Peter Howitt
- Macroeconomics I (Graduate Level), Teaching Assist. to Prof. David Weil

### Brigham Young University

- Intermediate Macroeconomics, Teaching Assist. to Prof. Phillip Garner (Sum. 2004)
- Economic Growth, Teaching Assist. to Prof. Phillip Garner (Spr. 2004)
- Development Economics, Teach. Assist. to Prof. Frank McIntyre (Fall 2003, Spr. 2004)
- Public Policy, Teaching Assist. to Prof. Frank McIntyre (Fall 2003)
- Introductory Economics, Head Teach. Assist. to Prof. J.R. Kearl (Fall 2002, Spr. 2003)
- Honors Introductory Economics, Teaching Assist. to Prof. Larry Wimmer (Spr. 2002)

## Advising

### PhD Dissertation Committees (with initial placement)

#### *Max Planck Institute for Demographic Research*

- Katherine Del Salto Calderón (TBD/PHDS) – Chair – In Progress
- Maxi Kniffka (TBD/PHDS) – Member – In Progress
- Jasmin Abdel Ghany (Oxford Sociology/PHDS) -- Chair -- In Progress
- Yasmin Mertehikian (U. Penn. Sociology/PHDS) -- Member -- In Progress
- Eugenio Paglino (U. Penn. Sociology/PHDS) -- Member -- In Progress

#### *University of South Florida*

- Natalia Gray -- Member -- Assistant Professor, Southeast Missouri State University
- Liza Pena -- Member -- Federal Housing Finance Agency
- Stacey Gelsheimer -- Member -- Harvard University (Intro Econ Head Section Leader)
- Nicole Schoenecker -- Co-Chair -- Assistant Professor, Coastal Carolina University
- Sianne Vijay -- Member -- Assistant Professor, DePauw University
- John Hartman -- Member -- Research Scientist, University of West Florida
- Stefani Milovanska -- Member -- Instructor, University of Tampa
- Samaneh Ghadyani -- Member -- Data Analyst, Gannett Fleming
- Zahara Akbari -- Member – Lecturer, Elon University

## Undergraduate Honors Thesis Committees

### *University of South Florida*

- Emilia Györk -- Chair
- Candis Davis -- Member
- Jane Lowe -- Member
- Andreina Munoz -- Member

## **Institutional Service**

### Max Planck Institute for Demographic Research

- Deputy Head, Laboratory of Fertility and Well-Being, June 2022 – Dec 2022
- Training Chair (similar to Graduate Director), Labs Myrskylä, May 2021 – June 2022
- Various Committees (primarily recruiting and PhD admission)

### University of South Florida

- Seminar Organizer, Economics Department. 2013 – 2019
- Other Minor Committees, both in the College of Arts and Sciences and the Economics Department (recruiting, technology, research, etc). 2011-2019

## **Professional Affiliations**

- AEA (American Economic Association)
- ASA (American Sociological Association)
- IUSSP (International Union for the Scientific Study of Population)
- PAA (Population Association of America)
- UAPS (Union for African Population Studies)
- EAPS (European Association for Population Studies)
- ASHEcon (American Society of Health Economists)
- IZA (Institute of Labor Economics)

## **Other**

- Languages – English: native, Romanian: good/B1, German: good/B1-A2
- Employment Eligibility: U.S. Citizen
- Other relevant employment: Survey Statistician, U.S. Census Bureau (2004-2005)