

W. MICHAEL WOOLEY

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SELECTED WORK EXPERIENCE

- 2017–*present* **Diane Swonk Economics** (Economic Consultant) Interpret and track macroeconomic indicators for clients.
- 2015-2017 **Economics Dept., Northwestern University** (Teaching Assistant) Taught weekly sections of 10-40 students in five different courses.
- 2016-2017 **Economics Dept., Northwestern University** (Research Assistant) Developed pipeline for structuring and indexing commodities data © Verified proofs and enhanced presentation in working papers.
- 2011 **Summerbridge Pittsburgh (Breakthrough Collaborative)** (Teacher) Taught seventh grade biology in intensive six-week summer school.

EDUCATION

- 2014–*present* **Northwestern University:** Ph.D. in Economics (In Progress) © Areas of Specialization: Macroeconomics, Public Economics, Computational Economics
- 2010-2014 **University of Pittsburgh:** B.S. in Mathematics-Economics (Summa Cum Laude) © B.A. in Philosophy (Summa Cum Laude)

SELECTED LEADERSHIP

- 2013-2014 ***Pittsburgh Undergraduate Review*** (Editor-in-Chief) Coordinated review, editing, budgeting, and distribution of peer-reviewed, interdisciplinary journal published by the Honors College of the University of Pittsburgh © Reduced time to reply to authors by implementing desk reject policy © Previously Assistant Editor (2012-2013) and Editorial Board Member (2010-2014).
- 2012-2014 **AIDPitt/Pitt #NoSweat Coalition Against Sweatshop Labor** (Secretary and Research Head) Wrote policy paper for successful #NoSweat campaign © Negotiated with and educated University of Pittsburgh administrators © Ran weekly newsletter (~500 recipients) and wrote accompanying haiku.

SELECTED RESEARCH

- Forthcoming* “Fiscal Centralization: Theory and Evidence from the Great Depression”. *American Economic Journal: Economic Policy*. (with Daniele Coen-Pirani)
- 2017 “Monetary Policy in an Economy with Production Networks”. (Northwestern Macro Lunch)

SELECTED PROJECTS

- 2016 **Shooting Backwards** Developed novel solution to non-linear, non-stationary banking crisis model by Kiyotaki and Gertler (2015) © Time to solution cut 15x © Used MATLAB symbolic algebra to demonstrate backwards-in-time solution a quartic polynomial with analytic solution (impossible with pen and paper) © Used spline interpolation to infer solution to inner loop.
- 2014 **name.com.bo** A search engine for finding and buying a cutesy website name using non-standard domains (e.g. “.com.bo” is the “.com” SLD for the Bolivian country code) © Implemented efficient search over 134k words in CMU pronunciation dictionary to find phonetic matches (e.g. “Michael Wooley” → michaelwoo.ly)

COMPUTER LANGUAGES/SKILLS

- Current:* Python (NumPy, SciPy, Pandas), R, SQL, Matlab, Julia, Fortran, Stata, Regex, L^AT_EX.
- Rusty:* JavaScript, HTML, CSS, Pure Data.
- Learning:* C/C++, Theano