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Citizenship: United States of America

EDUCATION

Ph. D. Economics, George Washington University, May 2011
M.A. Economics, George Washington University, May 2008
B.A. Economics, Whitman College, May 2005

CURRENT POSITIONS

Senior Economist, Federal Housing Finance Agency April 2015 – Present
Adjunct Professor (Econometrics), George Washington University Fall 2017

PRIOR POSITIONS

Research Economist, Bureau of Economic Analysis April 2013 – April 2015
Manager, Modeling and Forecasting, Washington Post June 2011 – April 2013
Manager (interim), Web Analytics, Washington Post Aug 2012 – Jan 2013

DISSERTATION

Essays on the Dynamics of Regional Housing and Labor Markets
Committee: Anthony Yezer (chair), Joshua Gallin, Fred Joutz, Don Parsons, Tara Sinclair

FIELDS OF SPECIALIZATION

land and house price measurement; energy and urbanization; mortgage credit modeling; forecasting

PUBLICATIONS

- “Missing the Mark: Mortgage Asset Valuation Accuracy and Credit Modeling,” with William Doerner and Alex Bogin. Forthcoming, *Financial Analysts Journal*.
- “Local House Price Dynamics: New Indices and Stylized Facts,” with William Doerner and Alex Bogin. Forthcoming, *Real Estate Economics*.
- “Oil Prices and Urban Housing Demand,” with Weihua Zhao. Forthcoming, *Real Estate Economics*.
- “Local House Price Paths: Accelerations, Declines, and Recoveries,” with Alex Bogin and William Doerner. Forthcoming, *Real Estate Finance and Economics*.
- “Telework: Urban Form, Energy Consumption, and Greenhouse Gas Implications,” with Weihua Zhao. *Economic Inquiry*, Vol. 55, No. 2 2017.
- “The Energy Implications of City Size and Density,” with Anthony Yezer. *Journal of Urban Economics*, Vol. 90, 2015.
- “Can Tightness in the Housing Market Help Predict Subsequent Home Price Appreciation? Evidence from the U.S. and the Netherlands,” with Paul Carrillo and Erik De Wit. *Real Estate Economics*, Vol. 43, No. 3, 2015.
- “Population Matters When Modeling Hurricane Fatalities,” with Laura Bakkensen. *Proceedings of the National Academies of Science*, Vol. 111, No. 50, 2014.
- “Is Newer Better? Penn World Table Revisions and Their Impact on Growth Estimates,” with Simon Johnson, Arvind Subramanian, and Chris Papageorgiou. *Journal of Monetary Economics*, Vol. 60, No. 2, 2013.
- “Energy Footprint of the City: Effects of Urban Land Use and Transportation Policies,” with Feng Liu and Anthony Yezer. *Journal of Urban Economics*, Vol. 72, 2012.

“Energy Consumption, Housing, and Urban Development Policy,” with Feng Liu and Anthony Yezer. In Susan Smith (editor), *International Encyclopedia of Housing and Home*, (pp. 80-86). Elsevier, San Diego, 2012.

WORKING PAPERS UNDER REVIEW

- “The Urban Economics of Self-Driving Cars,” with Weihua Zhao.
“Missing the Mark: House Price Index Accuracy and Mortgage Credit Modeling,” with William Doerner and Alex Bogin.
“An Examination of Industry Mix Demand Indicators: The Bartik Instrument at Twenty-Five,” with Dan Broxterman.
“House Price Markups and Mortgage Defaults,” with Paul Carrillo and William Doerner

WORK IN PROGRESS

- “New Residential Land Price Estimation Methods and Indices,” with Morris Davis, Steve Oliner, and Jessica Shui.
“Mortgage Risk Indicators,” with Morris Davis, Jesse Gregory, Stephen Oliner, and Benjamin Smith
“An Examination of Industry Mix Demand Indicators: The Bartik Instrument at Twenty-Five,” with Dan Broxterman. Revise and Resubmit, *Journal of Regional Science*
“Self-driving Cars and the City: Long-Run Effects on Land Use, Welfare, and the Environment,” with Weihua Zhao

OTHER PAPERS

- “The Daily Microstructure of the Housing Market,” with Peter Chinloy.
“Disaster Expectations, Home Maintenance, and the Effects of Hurricanes on Local Labor Markets,” with Kyle Hood
“Forecasting Aggregates with Structural Breaks in the Disaggregates,” GWU Research Program on Forecasting Working Paper Series, 2015-002
“Interrupted Development in the Standard Urban Model,” with Feng Liu.
“New Estimates of the Value of Land of the United States.”
“A Land Valuation Framework for the FRB/BEA Integrated Macroeconomic Account”
“Evaluating Alternative Methods of Forecasting House Prices: A Post-Crisis Reassessment.” GWU Research Program on Forecasting Working Paper Series, 2010-004

OTHER PROFESSIONAL EXPERIENCE

Consultant, Washington Post	April 2013-Oct. 2013
Research Assistant for Anthony Yezer	June 2007-Spring 2011
Guest Lecturer for Tara Sinclair, econometrics (STATA)	Fall 2009-Fall 2010
Instructional Assistant to Katie Foreman, Principles of Economics	Fall 2009-Spring 2010
Consultant, International Monetary Fund	June 2008-Aug. 2009
Research Assistant, International Monetary Fund	Jan.2007-Sept. 2007
Consultant, Benchmark Forecasts	Jan. 2006-Dec.-2006
Research Assistant, U.S. Senate Committee on Finance	Aug. 2005-June 2006

CONFERENCE & SEMINAR ACTIVITIES

Presenter, AREUEA-ASSA	January, 2019
Session Chair, APPAM Meetings	November, 2018
Presenter, Urban Economics Association Meetings	October, 2018
Discussant, AREUEA-ASSA	January, 2018
Presenter, CRN/AEI Conference on Housing Risk	October, 2017
Presenter, Freddie Mac	October, 2017
Presenter, Richmond Fed. Regional Workshop	September, 2017
Presenter, FHFA Research Workshop	August, 2017

Presenter, NAR University Speaker Series	August, 2017
Program Committee, Presenter, AREUEA National Meetings	June, 2017
Presenter, ARES Meetings	March, 2017
Presenter, Discussant, AREUEA-ASSA	January, 2017
Presenter, CRN/AEI Conference on Housing Risk	October, 2016
Presenter, GWU Research Program on Forecasting Seminar	September, 2016
Discussant, AREUEA National Meeting	June, 2016
Presenter, ARES Meetings	March, 2016
Presenter, Discussant, AREUEA-ASSA	January, 2016
Presenter, American University Regional Innovation Seminar	December, 2015
Chair, Presenter, Discussant, Urban Economics Association Meetings	November, 2015
Presenter, Richmond Fed. Regional Workshop	September, 2015
Presenter, GWU Microeconomics Seminar	September, 2015
Presenter, Discussant, AREUEA National Meeting	May, 2015
Presenter, Federal Housing Finance Agency	January, 2015
Presenter, Discussant, AREUEA-ASSA	January, 2015
Chair, Presenter, Discussant, WEIA Conference	June, 2014
Presenter, BEA workshop	March, 2014
Presenter, Discussant, NARSC Conference	November, 2013
Presenter, World Bank	September, 2013
Presenter, AREUEA Mid-Year Meetings	June, 2013
Presenter, Bureau of Economic Analysis	January, 2013
Presenter, Census Bureau	January, 2013
Presenter, Federal Housing Finance Agency	October, 2012
Discussant AREUEA-ASSA	January, 2012
Presenter, HUD – FHA	June, 2011
Presenter, AREUEA Mid-Year Meetings	June, 2011
Presenter, GWU Forecasting Seminar	February, 2011
Poster Session, AREUEA-ASSA	January, 2011
Presenter, GWU Microeconomics Seminar	November, 2010
Discussant, AREUEA Mid-Year Meetings	June, 2010
Presenter, GWU Microeconomics Seminar	March, 2010
Presenter, NBER Summer Institute CRIW Workshop	July, 2009
Discussant, AREUEA Mid-Year Meetings	June, 2009
Presenter, Princeton Economic Development Seminar	December, 2008
Presenter, GWU Microeconomics Seminar	October, 2008
Presenter, AREUEA Mid-Year Meetings	May, 2008
Presenter, GWU Microeconomics Seminar	February, 2008

FELLOWSHIPS AND AWARDS

ARES Best Paper Award, Real Estate Cycles (\$2,000)	2017
ARES Best Paper Award, Real Estate Market Analysis (\$2,000)	2016
Graduate Research Fellow, Center for Economic Research, GWU	2007-2011
Doctoral Dissertation Research Grant, HUD (\$25,000)	2010-2011
Early Doctoral Student Research Grant, HUD (\$15,000)	2007-2008

PROGRAMMING SKILLS

Matlab, STATA, R, Eviews, LaTeX, SQL, HTML5, ASP, PHP

SERVICE AND MEMBERSHIPS

Referee: *American Economic Journal: Policy*, *Journal of Urban Economics*, *Economic Inquiry*, *Real Estate Economics*, *Journal of Empirical Finance*, *Regional Science and Urban Economics*, *Journal of Housing Economics*, *International Journal of Forecasting*, *Eastern Economic Journal*, *Economic Development Quarterly*, *Economic Letters*, *Journal of Macroeconomics*

Member: American Economic Association, American Real Estate and Urban Economics Association, American Real Estate Society, Regional Science Association International, Urban Economics Association, GWU Research Program on Forecasting

Program Committee, 2017 AREUEA National Conference	June, 2017
Dissertation Committee Member for Stephen Popick	April, 2016
Founder and Co-Organizer, GWU Graduate Research Seminar Series	2010-2011
Founder and Co-President, GWU Economics Graduate Student Assoc.	2009-2011

PRESS HITS

The Economist, *Wall Street Journal*, *New York Times*, *Washington Post*, *Houston Chronicle*, *Chicago Tribune*, *NBC News*, *USA Today*, *24/7 Wall Street*, *National Geographic*, *Forbes*, *City Lab (The Atlantic)*, *Keene Sentinel*, *The M Report*, *National Mortgage Market News*, *Baseball Prospectus*, *Fangraphs.com*

REFERENCES

Professor Anthony Yezer (dissertation advisor, co-author)
Department of Economics, George Washington University
E-mail: yezer@gwu.edu, Phone: (202) 994-6755

Professor Tara Sinclair (dissertation committee)
Department of Economics, George Washington University
E-mail: tsinc@gwu.edu, Phone: (202) 994-7988

Professor Paul Carrillo (co-author)
Department of Economics, George Washington University
E-mail: pcarrill@gwu.edu, Phone: (202) 994-7608

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