

Caitlin O’Loughlin

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Education

Ph.D. Candidate, Economics, **Clemson University**, Clemson, South Carolina, *Expected*: May 2020, GPA: 3.84/4.00

Dissertation: “Three Essays on the Resiliency Of Urban Infrastructure and Public Systems”

Committee: **Paul W. Wilson** (chair), **Aleda Roth**, **Kevin Tsui**, **Andrew Hanssen**

M.A. Economics, **University of Texas at Arlington**, Arlington, Texas, May 2015, GPA: 4.00/4.00

B.S. Economics, **Virginia Tech**, Blacksburg, Virginia, May 2012, Dean’s List (x5)

B.A. French, **Virginia Tech**, Blacksburg, Virginia, May 2012, Dean’s List (x5)

Research Interests

Applied Microeconomics, Applied Econometrics, Public Economics, Industrial Organization

Dissertation Essays

“Capitalization of the “Shadow Mortgage” and its Implication for Housing Values and Depreciation”

“Benchmarking the Performance of U.S. Municipalities” with Paul W. Wilson

“The Effect of Proposition G on Housing Quality and Tenant Filtering in San Francisco”

Working Papers

“The Willingness-to-Pay to Avoid Drug Abuse: Evidence from the South Carolina Opioid Epidemic” with Michelle Eichinger

“The Contagion Effect of Neighboring Buyouts” with John Sherwood

Works in Progress

“Trust in Conflict Zones: Designing and Implementing a Resilient Framework for P2PR2P”

- P2PR2P is a Danaides Application and is a 2019 Paris Peace Forum Selection

Capstone Projects

“Textual Processing and Analysis of San Francisco Craigslist Ads”

- Used Natural Language Processing and visualization methods to examine trends in for-rent ads

“Predictive Analysis of Breast Cancer Prognosis and Advanced Stage Parkinsons”

- Utilized supervised and unsupervised methods on health outcome data for predictive modeling

“Evaluating Consumer Responses to Facebook Live Sellers”

- Applied clustering methods to gain insight on Facebook Live sellers in Thailand

Skills

Programming Languages: R, Python, SAS, C++, MATLAB

Machine Learning: Supervised Models (Naive Bayes, Linear Regression, Logistic Regression, Lasso and Ridge Regression, Random Forest, k -Nearest Neighbors, Support Vector Machines), Unsupervised (Clustering, Dimension Reduction, Natural Language Processing)

Database Management: SQL, Hive

Presentation Skills: L^AT_EX, Microsoft Office Suite

Additional Competencies: STATA, GIS, HPC, HTC, Web Scraping

Operating Systems: Windows, iOS, Linux

Human Languages: English (Native) & French (Fluent)

Selected Awards & Fellowships

National Research Traineeship (NRT) Fellowship, National Science Foundation (NSF), 2018–2020

Graduate Research Fellowship, Charles Koch Foundation, 2019

Professional Enrichment Grant (x3), Clemson University Graduate School, 2019

Hayek Fund for Scholars Award (x2), Institute for Humane Studies (IHS), 2019

Graduate Student Fellowship, John E. Walker Department of Economics, 2018–2019

Graduate Student Fellow, Public Choice Society, 2018

Conference and Research Grant (x2), John E. Walker Department of Economics, 2018 and 2019

Dr. Robert McCormick '72 Annual Fellowship in Economics, Clemson University, 2017–2018

Graduate Assistantship, John E. Walker Department of Economics, 2015–2018

Professional Experience

Lead Economics Tutor, Athletics Department, Clemson University, 2017

Secondary Mathematics Instructor, Polytechnic High School, Fort Worth, TX, 2012–2015

Secondary Mathematics Fellow, Fort Worth Teaching Fellows, Fort Worth, TX, 2012–2013

Commodity Merchant Intern, Cargill, Salina, KS, Summer 2011

U.S. and Global Dairy Economics Intern, Dairy Farmers of America, Kansas-City, MO, Summer 2010

Teaching Experience

Instructor, Department of Economics, Clemson University

Undergraduate, *Principles of Macroeconomics*, Summer 2017

Head Teaching Assistant, Department of Economics, Clemson University

Undergraduate, *Principles of Macroeconomics*, Dr. Scott Baier, Spring 2018

Undergraduate, *Principle of Microeconomics*, Dr. Andrew Hanssen, Fall 2017

Teaching Assistant, Department of Economics, Clemson University

Undergraduate, *Principle of Macroeconomics*, Dr. Scott Baier, Spring 2017

Undergraduate, *Principle of Microeconomics*, Dr. Andrew Hanssen, Fall 2016

Teaching Assistant, Department of Economics, University of Texas Arlington, Summer 2014

Selected Presentations

Southern Economic Association, Fort Lauderdale, FL, 2019 (Presenter)
NSF NRT Annual Meeting, Northwestern University, 2019 (Presenter)
Western Economic Association Conference, San Francisco, CA, 2019 (Presenter)
European Workshop on Productivity and Efficiency Analysis, London, UK, 2019 (Presenter)
Pacific Northwest Regional Economics Conference, Seaside, OR, 2019 (Presenter)
Carolina Region Empirical Economics Day, University of North Carolina Chapel Hill, 2019 (Presenter)
South Carolina Public Health Association, Myrtle Beach, SC, 2019 (Co-Author Presented)
NSF NRT Research Summit (x3), Clemson University, 2018–2019 (3MT Presenter and Poster)
Public Choice Society Meeting, Charleston, SC, 2018 and Louisville, KY, 2019 (Presenter)
Southern Economic Association Meeting, Washington, DC, 2018 (Presenter)
Public Choice Society Meeting, Charleston, SC, 2018 (Presenter)
Industrial Organization Workshop, Clemson University, 2018 (Presenter)
Workshop in Public Economics, Clemson University, 2017–2019 (Presenter)

Attended Seminars & Workshops

Open Science Grid User Summer School, University of Wisconsin Madison, 2019
IHS Seminar on What Makes a Successful City, St. Louis, MO, 2019
Center for Free Enterprise Summer Empirical Workshop, West Virginia University, 2018
Public Choice Outreach, George Mason University, 2017
ÊSTIMATE, Michigan State University, 2017

Professional Memberships

National Association for Business Economics, 2019–2020
Western Economic Association, 2019–2020
Southern Economic Association, 2018–2020

Service

Women Who Code, Greenville, 2019
Mentor Upstate Mentor, Northwest Middle School, 2019
Science, Technology, Engineering, Arts, and Math Day, Monarch Elementary, 2018
Teach for Madame at Virginia Tech, Blacksburg Elementary, 2010–2012

References

Professor Paul W. Wilson (Advisor)
Trevillian Distinguished Professor
Dept. of Economics and School of Computing
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(864) 656-2032

Professor Kevin Tsui
Associate Professor
Department of Economics
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(864) 656-3953

Professor Aleda Roth (Secondary Advisor)
Burlington Industries Distinguished Professor
Department of Management
aroth@clemson.edu
(919) 454-4707

Professor F. Andrew Hanssen
Associate Professor
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