

## Summary of Qualifications

Data analyst seeking economic research positions with extensive experience in managing large and detailed databases using both statistical and object-oriented programming languages.

## Work Experience

- **U.S. Census Bureau - Center of Economic Studies (CES)** Suitland, MD  
*Research Assistant* *September 2015 - current*
  - Compile and clean economic data from multiple sources using both SAS and STATA to aid CES economists in publishing important economic findings.
  - Develop SAS program to extract and aggregate the Longitudinal Firm Trade Transaction Database (LFTTD) – a large international trade transaction level database that contains information on the universe of U.S. import and export shipments from 1992 to 2016.
  - Built algorithm in STATA to identify start and end dates of production in unstructured product recall data provided from the Consumer Protection Services Commission (CPSC) – led to successfully identifying foreign transactions of recalled products in the LFTTD for an academic research paper.
  - Automated quality assurance reporting on internal Census data using both SAS and STATA to effectively and efficiently alert data staff to errors in data collection.
- **American University** Washington, DC  
*PhD Candidate* *August 2017 - Current*
  - **Dissertation:** *Multi-Market Competition in the Global Battery Trade*
  - American University *Fall 2018 Dissertation Fellowship Award* winner.
  - Key finding: U.S. battery exporters that meet their rivals across multiple foreign markets tend to charge higher prices to avoid cross market retaliation.
  - Analysis data is cleaned, collected and analyzed using a combination of packages including SAS, STATA, Python and R.
  - Developed algorithm in Python that calculates extent firms meet their rivals in multiple markets using the *networkx* package for any dataset unique at the firm-market level.
  - Currently building an agent-based model in Python that will serve as motivation for empirical analyses.
- **Economic Research Service (ERS)** Washington D.C.  
*Research Assistant* *June 2014 - December 2015*
  - Compiled analysis research data from public use household level Census surveys for research on SNAP (food stamps) in the rural U.S. economy.
  - Conducted statistical and regression analysis to understand the impact of SNAP eligibility requirements on welfare outcomes for rural households.
  - Co-authored paper with staff economists that found more relaxed eligibility requirements increases rural household wealth in assets and likelihood of vehicle ownership.
  - Presented preliminary results and outline of future research to National American Regional Science Council Conference in November 2014.



## Education

- **American University** Washington, D.C  
*Ph.D in Economics* 2013 - Current
  - GPA: 3.75 / 4
  - Graduate Fellowship. Fully funded.
  - Relevant economics courses: Advanced Econometrics, Advanced Statistics, Topology, Computational Algebraic Topology, Mathematical Economics, Advanced Micro-economics
  - Relevant math classes: Computational Algebraic Topology, Topology, Measure Theory, Growth of Artificial Societies (Agent-based Modelling)
- **University of South Carolina** Columbia, SC  
*Masters of Economics* August 2011 - December 2012
  - GPA: 3.94 / 4.0
  - Darla Moore fellowship Recipient
- **Virginia Tech** Blacksburg, VA  
*Bachelors of Economics* August 2007 - May 2011
  - Double major in mathematics
  - Economics in-major GPA: 3.7 / 4
  - Mathematics in-major GPA: 3.2 / 4

## Economics Publications

- Todd, J. E., Jo, Y., & Boohaker, J. R. (2018). The Impact of Supplemental Nutrition Assistance Program Policies on Asset Holdings. *Applied Economic Perspectives and Policy*.

## Other Publications

- Liu, N., Boohaker, R. J., Jiang, C., Boohaker, J. R., & Xu, B. (2015). A radiosensitivity MiRNA signature validated by the TCGA database for head and neck squamous cell carcinomas. *Oncotarget*, 6(33), 34649.

## Skills

- **Programming:** Python, STATA, SAS, R, Matematica, NetLogo, Linux and LaTeX
- **Specializations:** Regression Modelling, Data Mining, Optimization, Agent-based Modelling, Linear Algebra, Data Structures, Data Linking, Theoretical modelling
- **Other:** Aspiring chess player. Enjoy Volleyball, Basketball and Tennis. Avid runner.