Laurel Britt

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Education

The University of Texas at Austin	Bachelor of Science in Mathematics with Honors	05/2020
	Bachelor of Arts in Economics with High Honors and Special Honors	05/2020
	GPA: 3.91	

Work Experience

Federal Reserve Board of Governors — *Research Assistant*   07/2020–Present

- Assist economists and conduct independent research related to macroeconomic stability and monetary policy.

- Assist in policy-related tasks such as maintenance of databases, implementation of macroeconomic models in Matlab, production of internal memos and literature reviews, and tech editing of economists' written work.

- Give detailed presentations of papers at the forefront of economic research to economists and research assistants.

- Train and support incoming research assistants.

Sanger Learning Center — *Supplemental Instructor of* Economic Statistics   08/2018–12/2018

- Taught bi-weekly lessons to supplement economics majors' coursework in probability and statistics
- Attended weekly teaching workshops with a focus on instruction in economics.

Research Experience

Rational Housing Bubbles — *Federal Reserve Board of Governors*   11/2020-Present

- Wrote and solved a novel rational expectations model with multiple equilibria that supports a housing bubble.

- Provided theoretic evidence that a housing bubble equilibrium may be indistinguishable from a bubble-free equilibrium.

- Presented twice to Board economists on models of rational bubbles and how they can be used in research and policy.

- Studying estimation and solution techniques of DSGE models under Dr. Gurierri so that I can extend my results.

Obligor Matching in Loan-Level Data — *Federal Reserve Board of Governors*   10/2020-Present

- Used machine learning and fuzzy matching to create a group identifier for loan obligors in a dataset containing hundreds of thousands of bank and CMBS loans.

- Implemented a borrower fixed effects model using group identifiers.

- Performed conventional data analysis on loan level CRE data to assist in Dr. Elizabeth Klee's research.

Endowed Assignment Valuations and the Gross Substitutes Condition — *Honors Thesis*   08/2019–05/2020

- Wrote a survey on the gross substitutes condition and the relationship between matroid algebra and preference theory.

- Explored a generalization of the gross substitutes condition that does not require quasilinearity but guarantees equilibrium in a two-sided market.

- Presented a new proof that the Endowed Assignment Valuation Conjecture of Hatfield and Milgrom (2015) is false that is more direct than previous proofs.

- Studied matroid-based optimization and convex analysis under Professors Ngoc Tran and Max Stinchcombe.

Skills and Coursework

Programming Skills: Python, R, Matlab, STATA, LaTeX, Linux, MS Office
Coursework: PhD Math for Economists, Real Analysis I and II, Topology I and II, Stochastic Processes, Econometrics, Honors Differential Equations and Linear Algebra, Honors Discrete Mathematics, Number Theory, Economic Statistics, Vector Calculus, Calculus I and II, Money and Banking, Managerial Economics, Macro and Micro Theory, Intro to Macro and Microeconomics, Computer Engineering