

# CODY TAYLOR ORR

112 Martin Ln, Alexandria, VA 22304 | (832) 595-4172  
cody\_orr@alumni.baylor.com | <https://orrcody.github.io>

## Education

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### Michigan State University

PhD, Economics

East Lansing, MI

May 2021

- Fields: Labor, Economics of Education, Applied Econometrics
- Dissertation: Three Essays on Labor Economics and the Economics of Education

MA, Economics

December 2016

### Baylor University

BBA, Finance, Economics, Entrepreneurship

Waco, TX

May 2013

- Minors: Mathematics, Philosophy
- Cumulative GPA: 4.00/4.00

## Work Experience

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### Center for Economic Studies, U.S. Census Bureau

Research Economist

Suitland, MD

July 2021 to Present

- Conducts research on labor economics and the economics of education with survey and administrative data using modern econometric techniques such as staggered difference-in-differences, regression discontinuity, and discrete choice maximum likelihood estimation
- Produces the Postsecondary Employment Outcomes (PSEO) data product by coordinating data submissions from higher education institutions, reviewing data for errors, merging graduation records with Census employment data, and applying differentially private algorithms to generate publicly available files
- Innovates on PSEO by testing new differentially private algorithms to release additional employment statistics and improve the accuracy of existing statistics
- Serves as a public-facing subject matter expert for PSEO; responsibilities include answering questions from external researchers and journalists and partnering with user groups to workshop new ideas

### Michigan State University

Graduate Researcher

East Lansing, MI

June 2016 to May 2021

- Estimated a dynamic discrete choice model of college student credit hour enrollment, work hours, and student loan borrowing with subjective expectations in MATLAB
- Designed and distributed a survey to 6,000 Michigan State University undergraduates to elicit their employment history, beliefs about the returns to schoolwork, and their family financial constraints; results were featured in a publication by the Associate Provost for Undergraduate Education
- Evaluated the effects of a rural school grant on student outcomes using a regression discontinuity design and a difference-in-differences model in Stata
- Simulated the performance of multiple techniques for handling binary measurement error using MATLAB

### Deloitte Consulting

Business Analyst

Dallas, TX

August 2013 to July 2015

- Led the development of driver-based budgeting and forecasting for a national healthcare provider
- Created executive dashboards in Tableau for a global retailer to forecast the sales and traffic contributions of marketing strategies using distributed lag regression models
- Managed, edited, and contributed to the “Advanced Analytics Compendium,” an instructional guide for consultants to use statistical tools; authored topics included ANOVA, k-Nearest Neighbors, Classification Trees, Linear Regression, Statistical Distributions, Thresholding

## Teaching & Leadership Experience

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### Michigan State University

- Primary instructor for three courses: Economics of Education (twice) and Introduction to Microeconomics
- Teaching assistant for four courses: Graduate Microeconomic Theory (twice) and Labor Economics (twice)
- Research Fellow for the American Economic Association Summer Program advising undergraduate students from underrepresented backgrounds on research projects

### Deloitte Consulting

- Presented two seminars on using linear regression for budgeting and forecasting to over 200 employees
- Taught two classes on k-Nearest Neighbor clustering and Classification Trees in retail analytics
- Served as a Tableau instructor at Deloitte University for new hire training

## Awards & Recognitions

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- 2021 Bill & Melinda Gates Foundation Grant for \$78,983 in support of, “Impact of Sparsity Funding in State Formulas,” with Riley Action and Salem Rogers
- 2019 grant from Michigan State University Associate Provost for Undergraduate Education, Graduate School, College of Social Science, Department of Economics, Residential and Hospitality Services and Department of Student Life for \$15,000 in support of, “The Student Enrollment and Employment Survey”
- 2019 Michigan State University Research Enhancement Award recipient
- 2018 Michigan State University Department of Economics Excellence in Teaching citation
- 2015 Michigan State University Distinguished Fellowship recipient
- 2013 Robert E. Cook Award for Excellence in Economics, granted to the top graduating student in Economics at Baylor University
- 2013 Baylor Excellence in Student Involvement Award

## Technical Skills & Expertise

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Software (advanced): SAS, Stata, MATLAB, Tableau, LaTeX, Microsoft Excel, Microsoft PowerPoint

Software (basic): SQL, Visual Basic, Microsoft Access, Slurm Workload Manager

Research: Difference-in-differences, regression discontinuity, panel data econometrics, discrete choice modeling, data management, survey design, data visualization