

# Lief Esbenschade

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68 Olmsted Rd, Apt 111  
Stanford, CA 94305

Phone: (503) 576-1616  
Email: LiefEsbenschade@gmail.com  
Website: LiefEsbenschade.com

<b>Education</b>	<i>Doctoral Student, Economics of Education</i> Stanford University, Graduate School of Education	Expected Degree 2020
	<i>Master of Arts, Economics</i> Stanford University	2018
	<i>Bachelor of Arts, Economics</i> Carleton College, Magna Cum Laude	2012
<b>Recent Work Experience</b>	<i>Consultant</i> BrightBytes. San Francisco, CA	June 2019 - Ongoing
	<ul style="list-style-type: none"><li>• Determined which company products could be studied using quasi-experimental methods and best statistical techniques to use. Implemented difference in difference models leveraging differential timing of customer adoption to create estimates of product effectiveness.</li><li>• Assisted with design of new data schemas, creation of 100+ charts using Sisense software for real time dashboard display system for school districts.</li><li>• Consulted on design of RFP response to win new contracts.</li><li>• initial 3 month contract extended to continue contributions to key company products</li></ul>	
	<i>Collegiate Associate, Graduate Research Intern</i> ETS. Princeton, NJ	June 2018 - December 2018
	<ul style="list-style-type: none"><li>• Employed time series methods and difference in difference models to assess effects of passing standards changes on teacher candidates.</li><li>• Assessed over 400 potential test-state changes in passing standards for analysis and explored meta-regressive techniques to analyze model output.</li><li>• Upon completion of summer internship, was offered position as collegiate associate to continue research work. Research work to be presented at APPAM 2019.</li></ul>	
	<i>Research Analyst</i> NYC Department of Education, Office of Talent Research and Data. Brooklyn, NY	July 2013 - July 2015, Summer 2016
	<ul style="list-style-type: none"><li>• Worked with a team to create metrics of student learning as part of Advance teacher evaluation system.</li><li>• Created 3 million student growth percentiles and calculated hundreds of thousands of teacher mean growth percentiles to finalize 63,000 teacher ratings.</li><li>• Developed NYC's growth model for teacher evaluation. Led research into ranking methods, bootstrapped standard error correction, and imputation of missing data.</li></ul>	

**Academic  
Research  
Experience**

*Doctoral Researcher* January 2018 - May 2018  
San Francisco Unified School District. San Francisco, CA

- Analyzed trends in African American student enrollment and achievement in SFUSD
- Implemented value-added models to determine differences in school contributions to student achievement. Assessing effects on test scores, GPA, and attendance.
- Presented research to internal meeting of SFUSD research team.

*Research Assistant* Jan 2017 - June 2019  
Professor Thomas S. Dee, Stanford CEPA

- Assisted with data compilation and analysis for Hamilton policy paper: "Understanding and Addressing Teacher Shortages in the United States"
- Provided research support for project analyzing causal impact of African American Male Achievement program. Paper published as NBER working paper: "My Brother's Keeper? The Impact of Targeted Educational Supports"

*Research Assistant* March 2017 - September 2018  
Stanford Center for Assessment, Learning and Equity. Stanford, CA

- Researched edTPA score results for tens of thousands of teachers across multiple states and years of data.
- Analyzed data for trends in scores by teacher race and school conditions. Created descriptive statistics for presentations shown to key stakeholders in State departments of Education.
- Presented validity research on edTPA at NCME conference in New York City in 2018.

**Conference  
Presentations**

*State Rules and District Implementations: The Surprising Variability in Teacher Evaluations, AERA 2020*

*Constructing Teacher Survival Functions From Public Salary Data, AERA 2020*

*The Population Response to Changes in Passing Standards for Teacher Candidates, APPAM 2019, Co-Author Heather Buzick*

*A Bifurcation in the Labor Force? Public and Charter School Teachers, AERA 2018*

**COMPUTER  
SKILLS**

R (Tidyverse, Rmarkdown), Stata, SAS (Base 9 certification), L<sup>A</sup>T<sub>E</sub>X, Sisense.