

LUTHER YAP  
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Graduate Administrator: Laura Hedden

### Office Contact Information

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### Undergraduate Studies

B.A. Economics  
University of Cambridge, 2019

### Graduate Studies

Princeton University, 2019 to present  
Ph.D. Candidate in Economics  
Thesis Title: "Robust Inference in Econometric Models"  
Expected Completion Date: May 2025

M.A. Economics, Princeton University, 2021

### References

Michal Kolesár  
Department of Economics  
Princeton University

David Lee  
Department of Economics  
Princeton University

Ulrich Müller  
Department of Economics  
Princeton University

### Teaching and Research Fields

Primary Fields                      Econometrics  
Secondary Fields                    Industrial Organization, Labor Economics

### Research Experience:

May 2020 – Aug 2021              Research Assistant for Michal Kolesár (Princeton)  
Jun 2018 – Aug 2019                Research Assistant for Jessica Pan (NUS)

## Teaching Experience

Fall 2021	ECO 312, Undergraduate Econometrics, Princeton University Teaching assistant for Michal Kolesár
Spring 2022, 2023	ECO 518, Graduate Econometrics II Teaching assistant for Ulrich Müller, Mark Watson, and Mikkel Plagborg-Møller

## Honors, Scholarships, and Fellowships

2024 – 2025	Clarence J. Hicks Memorial Fellowship
2023 – 2024	Harold W. Dodds Honorific Fellowship
2022	Marimar and Cristina Torres Prize for Best Third Year Paper
2019 – 2020	Robert W. Ballantine Graduate Scholarship
2017 – 2019	E.M. Burnett Prize for First Class in Economics Tripos

## Job Market Paper

*“Inference with Many Weak Instruments and Heterogeneity”*

Abstract: This paper considers inference in a linear instrumental variable regression model with many potentially weak instruments and treatment effect heterogeneity. I show that existing tests can be arbitrarily oversized in this setup. Then, I develop a valid procedure that is robust to weak instrument asymptotics and heterogeneous treatment effects. The procedure targets a JIVE estimand, calculates an LM statistic, and compares it with critical values from a normal distribution. To establish this procedure's validity, this paper shows that the LM statistic is asymptotically normal and a leave-three-out variance estimator is unbiased and consistent. The power of the LM test is also close to a power envelope in an empirical application.

## Working Papers

*“What to do when you can't use ‘1.96’ Confidence Intervals for IV”* (with David Lee, Justin McCrary, Marcelo Moreira, and Jack Porter)

*“Robust Conditional Wald Inference for Over-Identified IV”* (with David Lee, Justin McCrary, Marcelo Moreira, and Jack Porter)

*“Valid Wald Inference with Many Weak Instruments”*

*“Sensitivity Analysis for Linear Estimators”* (with Jacob Dorn)

*“Asymptotic Theory for Two-Way Clustering”*

*“Design-Based Multi-Way Clustering”*

*“Two-Stage Differences in Differences”* (with John Gardner, Neil Thakral, and Linh Tô)

*“Sensitivity Analysis of Policy Relevant Treatment Effects to Failure of Monotonicity”*

*“The Dynamic Allocation of Public Housing: Policy and Spillovers”* (with Andrew Ferdowsian and Kwok-Hao Lee)

*“Build to Order: Endogenous Supply in Centralized Mechanisms”* (with Andrew Ferdowsian and Kwok-Hao Lee)