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## BROWN UNIVERSITY

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## References

Groos Family Assistant Professor **Jonathan Roth**  
Department of Economics, Brown University  
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Professor **Toru Kitagawa**  
Department of Economics, Brown University  
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Professor **Peter Hull**  
Department of Economics, Brown University  
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## EDUCATION

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<b>Brown University</b> Ph.D. in Economics	Providence, USA 2019 –present
<b>Oxford University</b> Masters of Philosophy in Economics	Oxford, England 2017 –2019
<b>University of Western Australia</b> Economics (First Class Honours) and Music Exchange: Maastricht School of Business and Economics	Perth, Australia 2014

## TEACHING AND RESEARCH FIELDS

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Primary fields: Econometrics  
Secondary fields: Development Economics

## SCHOLARSHIPS AND AWARDS

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| • Graduate Program in Development Fellowship, The Watson Institute, Brown University  | 2021 –2022 |
| • Reserve Bank of Australia Cadetship Award, Reserve Bank of Australia                | 2013       |
| • C.A Vargovic Memorial Scholarship, University of Western Australia, Business School | 2013       |
| • Matariki Undergraduate Research Scholarship, University of Western Australia        | 2012       |
| • Wesley Mission Music Scholarship, University of Western Australia, School of Music  | 2011       |

## JOB MARKET PAPER

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[“Do Standard Error Corrections Exacerbate Publication Bias?”](#)

*Presentations: 2023 Econometrics Society North American Summer Meeting (Los Angeles); 2023 MAER-Net Colloquium (Palma)*

Over the past several decades, econometrics research has devoted substantial efforts to improving the credibility of standard errors. This paper studies how such improvements interact with the selective publication process to affect the ultimate credibility of published studies. I show that adopting improved but enlarged standard errors for individual studies can lead to higher bias in the studies selected for publication. Intuitively, this is because increasing standard errors raises the bar on statistical significance, which exacerbates publication bias. Despite the possibility of higher bias, I show that the coverage of published confidence intervals unambiguously increases. I illustrate these phenomena using a newly constructed dataset on the adoption of clustered standard errors in the difference-in-differences literature between 2000 and 2009. Clustering is associated with a near doubling in the magnitude of published effect sizes. I estimate a model of the publication process and find that clustering led to large improvements in coverage but also sizeable increases in bias. To examine the overall impact on evidence-based policy, I develop a model of a policymaker who uses information from published studies to inform policy decisions and overestimates the precision of estimates when standard errors are unclustered. I find that clustering lowers minimax regret when policymakers exhibit sufficiently high loss aversion for mistakenly implementing an ineffective or harmful policy.

## WORKING PAPERS

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[“Why Are Replication Rates So Low?”](#) 2023. *Under Review*

*Presentations: 2023 Econometrics Society Australasian Meeting (Sydney); 2022 AIMOS Conference (Melbourne); University College London*

[“Optimal Publication Rules for Evidence-Based Policy”](#) (with Toru Kitagawa)

[“Deepfake Detection With and Without Content Warnings”](#) (with Andrew Lewis, Raymond M. Duch and Areeq Chowdhury), 2023. *Revised and Resubmitted, Royal Society Open Science*

## PUBLISHED PAPERS

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[“Gender Inequality in Education and Kinship Norms in India”](#) (with Anu Rammohan), *Feminist Economics*, 2018, 24(1): 142–167

## RESEARCH IN PROGRESS

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[“Preregistration: Out-of-Sample Replication Rate Predictions for the MTurk Replication Project”](#)

[“How Do Individuals Learn? Evidence from Rwanda”](#) (with Aislinn Bohren and Daniel Björkegren)

[“Pollution Externalities and Environmental Adaptation: Evidence from Vietnam”](#) (with Michael Neubauer)

## RESEARCH EXPERIENCE AND OTHER EMPLOYMENT

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<b>Brown University</b> Research Assistant for Toru Kitagawa and Daniel Björkegren	Providence, RI 2020–2023
<b>Oxford University</b> Research Assistant for Sophocles Mavroeidis	Oxford, England 2018
<b>The Reserve Bank of Australia</b> Economist (Overseas Economies, Domestic Financial Markets)	Sydney, Australia 2014–2017
<b>University of Western Australia</b> Research Assistant for Anu Rammohan	Perth, Australia 2013–2014

## TEACHING

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<b>University of New South Wales</b> Teaching Assistant for Denzil Fiebig in Introductory Econometrics	Sydney, Australia 2017
<b>Macquarie University</b> Teaching Assistant for Roselyne Joyeux	Sydney, Australia 2017
<b>University of Western Australia</b> Teaching Assistant for Microeconomics II, Macroeconomics II, and Monetary Economics	Perth, Australia 2012–2014

## CONFERENCES AND SEMINARS (INCLUDING UPCOMING)

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2023: Brown University, Econometrics Society North American Summer Meeting, Econometrics Society Australian Meeting, Applied Young Economists Webinar (Monash University), Meta-Analysis in Economic Research Colloquium, University of Canterbury Meta Seminar

2022: Brown University, University College London, Royal Society, Association for Interdisciplinary Metaresearch & Open Science Conference