Matthew J Tudball

WELLCOME TRUST PHD STUDENT · MRC INTEGRATIVE EPIDEMIOLOGY UNIT

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Education ____

MRC Integrative Epidemiology Unit, University of Bristol

Bristol, United Kingdom October 2018 - present

DOCTOR OF PHILOSOPHY (PHD)

• Visiting PhD Student, Statistical Laboratory, University of Cambridge, November 2021 - present

University of Toronto

Toronto, Canada

September 2016 - December 2017

• Selected modules: PhD Econometrics I & II, Mathematical Statistics I & II, Statistical Computation

University of Toronto

Toronto, Canada

BACHELOR OF SCIENCE (BSC) IN MATHEMATICS AND ECONOMICS WITH HIGH DISTINCTION

September 2011 - June 2016

Professional Experience _____

MASTER OF ARTS (MA) IN ECONOMICS

- **2022 Statistical Geneticist**, Relation Therapeutics
- 2021 Intern, Statistical Methodology Group, Novartis
- 2021 PhD Tutor in Mathematics, The Brilliant Club

Publications

PUBLISHED

Tudball, M*, Tilling, K, Zhao, Q. Almost exact Mendelian randomization. 2022. arXiv. 1-41.

- **Tudball, M***, Hughes, RA, Tilling, K, Bowden, J, Zhao, Q. 2022. Sample-constrained partial identification with application to selection bias. *Biometrika*. 1-14.
- Wang, Q, Richardson, TG, Sanderson, E, **Tudball, M.**, Ala-Korpela, M, Davey Smith, G, Holmes, MV. 2022. A phenome-wide bidirectional Mendelian randomization analysis of atrial fibrillation. *International Journal of Epidemiology*. 1-14.
- **Tudball, M***, Bowden, J, Hughes, RA, Ly, A, Munafo, MR, Tilling, K, Zhao, Q, Davey Smith, G. 2021. Mendelian randomization with coarsened exposures. *Genetic Epidemiology*, 45(3): 338-350.
- Griffith, G, Morris, T, **Tudball, M***, Herbert, A, Mancano, G, ..., Hemani, G. 2020. Collider bias undermines our understanding of COVID-19 disease risk and severity. *Nature Communications*, 11(1): 1-12.
- Kroft, K, Lange, L, Notowidigdo, M, **Tudball, M***. 2019. Long time out: Unemployment and joblessness in Canada and the United States. *Journal of Labour Economics*, 37(S2): S355-S397.

Awards, Fellowships, & Grants _____

2018 Wellcome Trust Four-year PhD Studentship in Science, Wellcome Trust

£128,756

- 2016 University of Toronto Graduate Fellowship, University of Toronto Dr James A & Connie P Dickson Scholarship, University College, University of Toronto University of Toronto Excellence Award, University of Toronto
- 2014 University of Toronto Excellence Award, University of Toronto University of Toronto In-Course Scholarship, University College, University of Toronto

^{*} Sole/joint first author

2013 Mary Keenan Award in Economics, Department of Economics, University of Toronto

Presentations _____

INVITED TALKS

Winter 2022. A flexible sensitivity analysis for sample selection bias. MRC Biostatistics Unit (BSU) Seminar Series, Virtual.

Autumn 2021. Almost exact Mendelian randomization. International Chinese Statistical Association (ICSA) Applied Statistics Symposium, Virtual.

Autumn 2020. Selection bias in clinical trials and electronic health records. Novartis Statistical Methodology Group Seminar Series, Virtual.

Autumn 2020. *Mendelian randomization with coarsened exposures*. Mendelian Randomization Working Group, University of Exeter, Virtual.

CONTRIBUTED PRESENTATIONS

Summer 2021. Almost exact Mendelian randomization. Joint Statistical Meetings, Virtual.

Summer 2021. Almost exact Mendelian randomization. International Conference on Mendelian Randomization, Virtual.

Winter 2020. The effect of alcohol consumption on child outcomes among breastfeeding mothers. Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting, Virtual.

Summer 2019. *An interval estimation approach to sample selection bias*. International Conference on Mendelian Randomization, Bristol, United Kingdom.

Summer 2019. *An interval estimation approach to sample selection bias*. Society for Epidemiologic Research Annual Meeting, Minneapolis, United States.

Spring 2019. An interval estimation approach to sample selection bias. European Causal Inference Meeting. Bremen, Germany.

Teaching Experience _____

2016 - 2017 ECO375 (Applied Econometrics), Teaching Assistant

University of Toronto

Mentoring_____

2021 - 2022 Winfred Gatua, PhD Student, MRC Integrative Epidemiology Unit

Bristol, United Kingdom

Additional Information

R PACKAGES

https://github.com/matt-tudball/{selectioninterval, almostexactmr}

PEER REVIEW

Statistics in Medicine, Biometrics, Annals of Epidemiology

References.

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University of Cambridge
Cambridge, United Kingdom, CB3 0WB

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Dr Cristian Regep
Director of Data Science
Relation Therapeutics
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