

Hassan R. S. Andrabi

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EDUCATION

PhD Decision, Risk, and Financial Sciences, University of Melbourne, 2027
MCom Decision, Risk, and Financial Sciences, University of Melbourne, 2024
Hons Finance, University of Melbourne, 2020
BCom Commerce, University of Melbourne, 2019

RESEARCH AREAS

Markets: information aggregation, market design, and the role of incentives.

Computational complexity theory: combinatorial problems, phase transitions, and human problem-solving.

Simulation modelling to evaluate the health and economic impacts of public health interventions.

PUBLICATIONS

Journal Articles

- 2025 S. Bode, A. Varsamis, Z. A. Xu, M. Jiwa, H. Andrabi, N. Egorova-Brumley, C. Morawetz. “When We Want to Know the Bad News: Exploring Information-Seeking for Unavoidable Pain Stimuli.” *Cognition and Emotion*. doi.org/10.1080/02699931.2025.2597887
- 2024 D. Ait Ouakrim, T. Wilson, A. Waa, R. Maddox, H. Andrabi, S. R. Mishra, J. A. Summers, C. E. Gartner, R. Lovett, R. Edwards, N. Wilson, T. Blakely. “Tobacco Endgame Intervention Impacts on Health Gains and Maori: Non-Maori Health Inequity: A Simulation Study of the Aotearoa/New Zealand Tobacco Action Plan.” *Tobacco Control* 2 (33), 173-184. doi.org/10.1136/tc-2022-057655
- 2023 S. R. Mishra, T. Wilson, H. Andrabi, D. Ait Ouakrim, A. Li, E. Akpan, R. Bentley, T. Blakely. “The Total Health Gains and Cost Savings of Eradicating Cold Housing in Australia.” *Social Science & Medicine* 334 (115954). doi.org/10.1016/j.socscimed.2023.115954
- 2023 J. Szanyi, T. Wilson, S. Howe, J. Zeng, H. Andrabi, S. Rossiter, T. Blakely. “Epidemiologic and Economic Modelling of Optimal COVID-19 Policy: Public Health and Social Measures, Masks and Vaccines in Victoria, Australia.” *The Lancet Regional Health – Western Pacific* 32 (100675). doi.org/10.1016/j.lanwpc.2022.100675

INVITED TALKS

Seminars and Workshops

- 2026 “Incentives for Discovery in Computationally Hard Environments.” AFAANZ Doctoral Symposium. Accounting and Finance Association of Australia and New Zealand (AFAANZ). Melbourne, Australia. Jul 5.
- 2026 “Incentives for Discovery in Computationally Hard Environments.” Workshop on Computational Complexity and Economic Decision Making. University of Cambridge. Cambridge, UK. May 28.

- 2026 “The Impact of Price Signals on Effort and Productivity in a ‘Hard’ Task.” Workshop on Dynamic Decision Making: Minds, Models, and Markets. The University of Sydney. Sydney, Australia. Apr 14.
- 2025 “Phase Transition in the 0-1 Knapsack Problem.” Leverhulme International Professorship in Neuroeconomics Complexity Seminar. University of Cambridge. Cambridge, UK. Mar 3.
- 2024 “Prices as Information Signals.” Leverhulme International Professorship in Neuroeconomics Complexity Seminar. University of Cambridge. Cambridge, UK. Nov 19.

Conference Activity¹

- 2026 H. Andrabi, P. Bossaerts, N. Yadav. “Incentives for Discovery in Computationally Hard Environments.” Society for Experimental Finance. Toulouse, France. Jun 15.
- 2026 H. Andrabi, P. Bossaerts, N. Yadav. “Incentives for Discovery in Computationally Hard Environments.” International Association for Research in Economic Psychology, Motives and Preferences in Economic Decisions. Castellón, Spain. Jun 9.
- 2026 H. Andrabi, P. Bossaerts, N. Yadav. “The Effect of Price Signals on Effort and Productivity in a ‘Hard’ task.” Asia-Pacific Meeting of the Economic Science Association. Melbourne, Australia. Apr 9.
- 2026 H. Andrabi, P. Bossaerts, N. Yadav. “The Invisible Hand: How Markets Guide Effort and Productivity” Experimental Finance Asia/Pacific. Melbourne, Australia. Apr 8.
- 2026 H. Andrabi, P. Bossaerts, N. Yadav. “The Impact of Price Signals on Effort and Productivity in a ‘Hard’ Task.” Australasian Mathematical Psychology Conference. Singapore. Feb 27.
- 2025 H. Andrabi, P. Bossaerts, *K. Ioannidis*, R. Woods, N. Yadav. “Markets or Patents? Experiments on Collective Innovation and Information Aggregation” Society for Experimental Finance Conference. Maastricht, Netherlands. Jun 12.
- 2024 H. Andrabi, P. Bossaerts, *K. Ioannidis*, R. Woods, N. Yadav. “Markets spread knowledge to overcome computational complexity.” Society for Experimental Finance Conference. Stavanger, Norway. Jun 25.
- 2024 H. Andrabi, P. Bossaerts, *K. Ioannidis*, R. Woods, N. Yadav. “Markets Reveal Optimal Solutions to Complex Problems.” Society for Neuroeconomics Conference. Cascais, Portugal. Oct 11.

GRANTS AND AWARDS

Awards and Honors

- 2026 Health Promotion Grant, for the project: ‘Breaking Barriers: FBE Community Trivia Nights for Connection and Wellbeing’, University of Melbourne. \$9,000 AUD.
- 2025 Vernon Smith Young Talent Award, Society for Experimental Finance. \$4,000 USD.
- 2024 Melbourne Global Scholars Award for High Achieving Students, Faculty of Business and Economics, University of Melbourne. \$1,500 AUD.
- 2023 Best Research Paper by Discipline Award (Methodology), School of Population and Global Health, University of Melbourne. \$1,500 AUD.
- 2022 MPSGH Research Achievement Award, School of Population and Global Health, University of Melbourne. \$1,500 AUD.

Competitive Scholarships

- 2026 Graduate Research Travelling Scholarship, Faculty of Business and Economics, University of Melbourne. \$4,000 AUD.

¹Presenting author *italicised* if other than first author.

- 2024 International Study Scholarship, Faculty of Business and Economics, University of Melbourne. \$5,000 AUD.
- 2023 Doctoral Program Scholarship, Faculty of Business and Economics, University of Melbourne. \$37,000 AUD p.a.
- 2014 Kwong Lee Dow Scholarship for High Achieving Students, University of Melbourne. \$2,500 AUD.

TEACHING

- 2026 Behavioural Finance (undergraduate), TA; Principles of Finance (undergraduate), TA
- 2025 Machine Learning in Finance (postgraduate), head TA; Principles of Finance (undergraduate), TA
- 2024 Machine Learning in Finance (postgraduate), head TA; Algorithmic Trading (undergraduate), TA; Capstone Studies in Finance (postgraduate), TA
- 2023 Machine Learning in Finance (postgraduate), TA
- 2021 Contemporary Epidemiology Short Course (postgraduate), Instructor

PROFESSIONAL EMPLOYMENT

- 2025– Software Engineer (frontend), Centre for Brain, Mind, & Markets, University of Melbourne
- 2020–23 Software Engineer (Simulation Modelling), Population Interventions Unit, University of Melbourne
- 2019–20 Accounting and Advisory, MJC Partners

SERVICE

Service to the Field

- 2025 PyKP, a Python package for the 0-1 Knapsack Problem. <https://pykp.readthedocs.io/>.
- 2023–24 Managing Editor and Software Engineer, Australian COVID-19 Modelling Initiative (AUSCMI)
- 2022 CovStrain, a web-based tool to track global genomic sequencing data on SARS-CoV-2 mutations of interest. 1k users. <https://covstrain.vercel.app/>.
- 2020 COVIDVictoria, a web-based tool for COVID-19 Spatial Data Mapping. 2m users.

Service to the University

- 2026– Secretary, Faculty of Business and Economics PhD Student Society, University of Melbourne

SKILLS

Programming: Python, R, Julia, React, JavaScript, Git, high-performance computing

Languages: English (native), Urdu (fluent)

Updated June 2026