

# Yobin Timilsena

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## CONTACT INFORMATION

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## ACADEMIC PROFILE

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I am a current PhD candidate in Business and Economics from the University of Melbourne. I specialise in building spatial macroeconomic models to answer policy-relevant questions regarding spatial heterogeneity and inequality. Using quantitative models, my current research examines the determinants and linkages of spatial inequality in economic outcomes, the extent of education-driven intergenerational mobility, and changes to urban structure under hybrid work arrangements, and evaluates the efficacy of different policy interventions in improving aggregate outcomes. I am also an experienced university tutor and peer mentor, with an inclusive, evidence-based practice backed by strong student evaluations. I am firmly committed to equity and collaboration in the workplace, and integrating cutting-edge computational and AI tools and techniques in research and teaching.

## EDUCATION

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**University of Melbourne**, Melbourne, Australia (2024–2027, expected)

Ph.D. in Business and Economics (Economics)

*Thesis:* Essays in Spatial Economics

*Supervisors:* A/Prof. Lawrence Uren; Dr. James Hansen

**University of Melbourne**, Melbourne, Australia (2023)

M.Com. in Economics

**University of Wisconsin–Madison**, Madison, USA (2020–2022)

M.S. in Economics (Fields: Macroeconomics; Industrial Organization)

**New York University Abu Dhabi**, Abu Dhabi, UAE (2016–2020)

B.A. in Economics, *summa cum laude*; Minor: Applied Mathematics

## RESEARCH INTERESTS

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quantitative spatial macroeconomics; economics of education; place-based policy evaluation; computational economics; economic geography; urban economics.

## RESEARCH OUTPUT

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### Works in Progress

*Spatial Transmission of Inequality through Education*

*Hybrid Work, Agglomeration, and City Structure*

*Spatial Misallocation of Innovation: Evidence from India* with A/Prof. Reshad Ahsan

### Seminar Presentations

**2026:** Economics Brown Bag Seminar (UoM); Macro Reading Group (UoM); Empirical Trade Economics Reading Group (UoM)

**2025:** Economics Brown Bag Seminar,  $\times 2$  (UoM); Macro Reading Group (UoM); Empirical Trade Economics Reading Group (UoM)

**2024:** Economics Brown Bag Seminar,  $\times 2$  (UoM); Macro Reading Group (UoM); Confirmation Seminar (UoM); Housing Economics Workshop (UoM)

**2023:** PhD Thesis Workshop (UoM); Pre-confirmation Seminar (UoM)

## RESEARCH EXPERIENCE

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Research Assistant for Professor John C. Ham, NYU Abu Dhabi (2019-2020)

Summer Research Intern, NYU-CTED, Ghana (Summer 2017)

## TEACHING & EDUCATIONAL ACTIVITIES

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### Teaching Experience

#### University of Melbourne, Department of Economics

ECON30009 Macroeconomics, Tutor (Sem 2 2025, 2024, 2023)

ECON30005 Money and Banking, Tutor (Sem 1 2026, 2025, 2024, 2023)

ECON20003 Quantitative Methods II, Tutor (Sem 1 2026, 2025; Summer 2026; Sem 2 2025)

ECON20001 Intermediate Macroeconomics, Tutor (Sem 2 2024, 2023)

ECON10005 Quantitative Methods I, Tutor (Sem 1 2024)

#### University of Wisconsin–Madison, Department of Economics

ECON330 Money and Banking, Teaching Assistant (Spring 2022)

ECON101 Principles of Microeconomics, Head Teaching Assistant (Fall 2021)

ECON101 Principles of Microeconomics, Teaching Assistant (Spring 2021)

## **New York University, Courant School of Mathematics**

Undergraduate Tutor in Calculus I/II/III, Discrete Mathematics, Linear Algebra (Fall 2018)

## **LEADERSHIP, SERVICE & ENGAGEMENT**

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Academic references and advising, University of Melbourne (2024-present)

Peer Mentor Tutor, Williams Centre for Learning Advancement (WCLA) (2024)

Leadership Team, Wisconsinites for Inclusion and Diversity in Economics (WIDE) (2020-2022)

Experienced TA Trainer, Department of Economics, UW-Madison (2021-2022)

Editorial Team, NYUAD Journal of Social Sciences, NYU Abu Dhabi (2018-2020)

## **HONOURS, AWARDS & GRANTS**

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Australian Government Research Training Program Scholarship (2024-present)

Business and Economics Doctoral Program Scholarship, UoM (2023)

JPGI Summer Research Fellowship, UW-Madison (2022)

Department Fellowship, UW-Madison (2020)

Summer Research Fellowships, NYU Abu Dhabi (2019, 2017)

Post-Graduation Practical Training Program, NYU Abu Dhabi (2020)

## **TRAINING**

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Advanced Linux and High Performance Computing, UoM (2025)

Introduction to Linux and Supercomputing, UoM (2025)

Introduction to the HILDA Survey, UoM (2024, 2025)

Research Integrity Online Training, UoM (2024)

Computational Economics Workshop, UoM (2024)

Math+Econ+Code Masterclass on Optimal Transport, NYU (2022)

## TECHNICAL SKILLS

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<b>Programming:</b>	Python (pandas, numba), Julia, Matlab	<i>(proficient)</i>
	R (tidyverse), Stata, Spartan (Slurm)	<i>(advanced)</i>
	arcGIS Pro, QGIS	<i>(familiar)</i>
<b>AI &amp; Machine Learning:</b>	PyTorch, TensorFlow, scikit-learn; Reinforcement Learning; Causal Inference	
<b>Datasets:</b>	HILDA, ACARA, ABS (TableBuilder, Microdata, DBR), PSID	
<b>Development Tools:</b>	Git/GitHub, L <sup>A</sup> T <sub>E</sub> X, Markdown, Docker, Visual Studio Code, OpenAI Codex, Github Copilot, Jupyter Notebooks, Positron, Quarto	

## MISCELLANEOUS

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**Languages:** English (fluent), Nepali (native), Hindi (fluent)

**Citizenship:** Nepal, Australia (permanent resident)

## REFERENCES

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**A/Prof. Lawrence Uren**

Associate Professor, Economics, UniMelb  
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**Dr. James Hansen**

Senior Lecturer, Economics, UniMelb  
james.hansen@unimelb.edu.au

**A/Prof. Reshad Ahsan**

Associate Professor, Economics, UniMelb  
reshad.ahsan@unimelb.edu.au

**Dr. Mehmet Ozmen** [Teaching reference]

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