

# JOSHUA THONG

Singapore

☎ +65-82232599 ✉ [joshuathong.zj@gmail.com](mailto:joshuathong.zj@gmail.com) 🌐 [My ORCID](#) 🌐 [My PhilPeople Profile](#) 🌐 [My LinkedIn](#)

## EDUCATION

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### Australian National University

*Ph.D. (Philosophy)*

Jun 2019 – Nov 2022

Canberra, Australia

### National University of Singapore

*B.A. (Philosophy) - 1<sup>st</sup> Class Honours (CAP 4.73)*

Aug 2014 – Jul 2018

Singapore, Singapore

## RESEARCH AREAS

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### Areas of Specialisation

- Philosophy of Probability
- Decision Theory
- Algorithmic Fairness in AI
- Formal Epistemology
- AI Ethics

### Areas of Competence

- Metaphysics
- Critical Thinking
- Social Choice Theory
- Logic
- Population Ethics
- Normative Ethics

## PUBLICATIONS

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- Not staying regular? (2025), *Synthese*, <https://doi.org/10.1007/s11229-025-05115-2>.
- Consequences of Assigning Non-Measurable Sets Imprecise Probabilities (2024), *Mind*, <https://doi.org/10.1093/mind/fzae023>.
- Primitive conditional probabilities, subset relations and comparative regularity (2024), *Analysis*, <https://doi.org/10.1093/analys/anad099>.

## OTHER MANUSCRIPTS

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- Opening up new possibilities for algorithmic fairness (Submitted to *Australasian Journal of Philosophy* on 31<sup>st</sup> Jul 2025)
- No recipe for comparative confidence: the limits of real-valued credences and set-theoretic relations. (Submitted to *Philosophical Studies* on 4<sup>th</sup> Jun 2025)
- Underdetermination of comparative probabilities. (In preparation)
- Rescuing algorithmic fairness. (In preparation)
- What imprecise non-Archimedean probabilities could not be. (In preparation)
- Rejecting the simulation argument. (In preparation)
- An impossibility theorem in population axiology without completeness. (In preparation)
- Underdetermination of Imprecise Probabilities. (Ph.D. dissertation, accessible here: <https://openresearch-repository.anu.edu.au/handle/1885/272356>)

## WORK EXPERIENCE

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### University of Inland Norway

*Postdoctoral Fellow*

Sep 2025 – Sep 2028

Lillehammer, Norway

- Researcher for the project “Towards a Theory of Rational Desire”.

### Singapore Management University

*Adjunct Faculty*

Jan 2023 – May 2025

Singapore, Singapore

- Lecturer for COR1701: Critical Thinking in the Real World, which is a core module.
- Taught deductive and inductive logic, essential critical thinking skills and how to evaluate arguments.
- Attained an overall instructor rating of 6.0/7.0.

### National University of Singapore

*Postdoctoral Fellow*

Oct 2022 – Mar 2023

Singapore, Singapore

- Research project: Metaphysics of Humanity.
- Organised a workshop and presented a paper there.
- Completed a paper arguing why we should reject the Simulation Argument.

## **Australian National University**

### *Research Assistant*

- Assisted Alan Hájek in commenting on papers.

May 2022 – Dec 2024

Canberra, Australia

## **Australian National University**

### *Teaching Assistant*

- Tutor for PHIL1008: Introduction to Ethics.
- Organised online classes via Zoom in Covid times.

Mar 2020 – Jun 2020

Canberra, Australia

## **National University of Singapore**

### *Teaching Assistant*

- Tutor for GET1029: Life, The Universe, and Everything.
- Organised workshops to help students with philosophy quizzes and to impart essential essay-writing skills.
- Attained an overall rating of 4.0/5.0.
- Nominated for teaching awards.

Aug 2018 – May 2019

Singapore, Singapore

## **TALKS AND PRESENTATIONS**

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### **Australasian Association of Philosophy Conference**

6<sup>th</sup> Jul 2023

#### *Speaker*

Melbourne, Australia

- Presented a paper demonstrating an impossibility theorem regarding supervaluating over non-Archimedean probability functions to produce imprecise probabilities.

### **Metaphysics of Humanity Workshop**

17<sup>th</sup> Nov 2022

#### *Organiser and Speaker*

Singapore, Singapore

- Held at the National University of Singapore.
- Presented a paper on why we should be practically certain that we're simulated.

### **Australian National University Philosophy Society**

7<sup>th</sup> Sep 2021

#### *Speaker*

Canberra, Australia

- Presented a paper demonstrating that assigning imprecise probabilities to non-measurable sets has unforeseen and undesirable consequences.

### **Singapore Undergraduate Philosophy Conference**

2<sup>nd</sup> Mar 2019

#### *Speaker*

Singapore, Singapore

- Presented a paper on truth-tracking theories.

## **AWARDS**

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### **Australian Government Research Training Program Scholarships**

Jun 2019 – Nov 2022

- Awarded during my time at the Australian National University.
- One scholarship for offsetting the fees for my Ph.D. and the other for a stipend.

### **Dean's Scholar List**

31<sup>st</sup> Aug 2018

- Awarded by the National University of Singapore for my B.A. in philosophy.

## **SKILLS**

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**Programs:** Overleaf (LaTeX program), Isabelle (theorem prover), Microsoft Word, PowerPoint, Excel.

**Languages:** English, Mandarin, German (intermediate), French (intermediate).

## **REFERENCES**

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Alan Hájek: hajek.alan@gmail.com

Ben Blumson: benblumson@gmail.com

Michael Nielsen: michael.nielsen@sydney.edu.au

## **ADDITIONAL INFORMATION**

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**Hobbies:** Listening to and playing music, chess, hiking, going to the beach, thinking and reading about theology and biblical studies.