

# Yee-Jian Tan

+33 7 52 04 32 55 | [yee-jian.tan@kuleuven.be](mailto:yee-jian.tan@kuleuven.be) | [yeejian.dev](http://yeejian.dev)

## EDUCATION

|   |  |
|---|--|
| <b>Katholieke Universiteit Leuven (KU Leuven)</b><br><i>PhD in Computer Science (Topic: Implementation of Multimodal Type Theory for Agda)</i>  | Leuven, Belgium<br>Sep 2025 - Aug 2029 |
| <b>Institut Polytechnique de Paris (École Polytechnique)</b><br><i>Masters in Computer Science Research (Master Parisien de Recherche en Informatique)</i><br><i>Specialisation: Type Theory, Logic (16.0/20)</i>   | Paris, France<br>Sep 2023 - Sep 2025   |
| <b>National University of Singapore</b><br><i>Bachelors of Computing with Honours (Computer Science), Distinction (4.48/5)</i> <ul style="list-style-type: none"><li>Specialisation: Algorithms and Computation</li></ul> <i>Bachelors of Science (Mathematics), Highest Distinction (4.50/5)</i> <ul style="list-style-type: none"><li>Specialisation: Abstract Algebra, Logic</li></ul> | Singapore<br>Aug 2018 - May 2023       |

## EXPERIENCE

|   |  |
|---|--|
| <b>Research Intern, M2 Internship</b><br><i>DistriNet, KU Leuven (Advisors: Andreas Nuyts, Dominique Devriese)</i><br>Topic: Towards Computational UIP in Cubical Agda. | Apr 2025 - Aug 2025<br>Leuven, Belgium |
| <b>Research Intern, M1 Internship</b><br><i>Cambium, Inria Paris (Advisor: Yannick Forster)</i><br>Topic: Towards Formalising the Guard Checker of Coq.                 | May 2024 - Aug 2024<br>Paris, France   |
| <b>Research Intern</b><br><i>Gallinette, Inria Nantes (Advisor: Nicolas Tabareau)</i><br>Topic: Formalising Coq Modules in the MetaCoq project.                         | May 2022 - Aug 2022<br>Nantes, France  |

## PUBLICATIONS

|  |               |
|--|---------------|
| <b>A stepper for a JavaScript Sublanguage</b> ( <a href="https://doi.org/10.1145/3371076">https://doi.org/10.1145/3371076</a> )<br><i>Jww. Martin Henz, Thomas Tan, Zachary Chua, Peter Jung, Xinyi Zhang, Jingjing Zhao</i> | SPLASH-E 2021 |
|--|---------------|

## AWARDS

|  |             |
|--|-------------|
| <b>Honourable Mention (“Mention de Félicitations”)</b> , École Polytechnique | 2024        |
| <b>Senior Honour Roll</b> , NUS University Scholars Programme                | 2022 - 2023 |
| <b>Honour Roll</b> , NUS University Scholars Programme                       | 2020 - 2021 |
| <b>Honour List of Student Tutors</b> , NUS School of Computing               | 2019 - 2020 |

## SCHOLARSHIPS AND GRANTS

|  |             |
|--|-------------|
| <b>Masters Mobility Programme</b> , French Embassy to Malaysia<br>2-year Master’s grant covering tuition fees and living expenses in France.             | 2023 - 2025 |
| <b>Dr. Goh Keng Swee Scholarship</b> , Association of Banks in Singapore<br>Full scholarship for undergraduates selected from 15 Asia-Pacific economies. | 2018 - 2023 |

## TEACHING EXPERIENCE

|   |                       |
|---|-----------------------|
| <b>Programming Methodology I</b> , Teaching Assistant, NUS School of Computing  | Fall 2019, 2020, 2021 |
| <b>Programming Methodology I</b> , Teaching Assistant, NUS School of Computing<br>Led tutorial/lab sessions for students of the Faculty of Engineering.       | Summer 2021           |
| <b>Programming Methodology I (S)</b> , Teaching Assistant, NUS School of Computing<br>Based on SICP. Led tutorial/lab sessions for Computer Science students. | Fall 2019             |

## THESES

|  |      |
|--|------|
| <b>Towards Computational UIP in Cubical Agda</b> , Masters Year 2 Thesis<br>Advisors: Dominique Devriese, Andreas Nuyts. | 2025 |
|--|------|

**Towards Formalizing the Guard Checker of Coq**, *Masters Year 1 Thesis*

2024

Advisors: Yannick Forster.

*Honourable Mention (“Mention de Félicitations”) by École Polytechnique on L3/M1 Theses*

Presented at Coq Workshop 2024, TYPES 2025.

**Formalizing Coq Modules in the MetaCoq Project**, *Bachelor's Thesis*

2023

Advisors: Nicolas Tabareau, Martin Henz, Yue Yang. Grade: A