Rumi Salazar ruminawi.salazar@gmail.com · rumisalazar.com

Education
- **University of Melbourne**, PhD in Mathematics, 2024–present. Supervisors: Yulia Alexandr and Daniel Murfet.
- **UNSW Sydney**, B.Sc. (Advanced) (Honours) in Pure Mathematics, 2020. Honours Class I (95), WAM 91.

Employment
- **University of Sydney:** Casual academic tutor, 2021–2023.
- **UNSW Sydney:** Casual academic tutor, 2021–2023.
- **UNSW Sydney:** Tutor, Mathematics Drop-In Centre and Nura Gili, 2018–2022.

Collaborations
- **Resolution (formerly Timaeus):** research collaboration, from 2026.

Interests
Singular learning theory, linear logic, AI alignment, agent foundations, the science of deep learning.

Papers
- Billy Snikkers[=], **Rumi Salazar**[=], Daniel Murfet and Will Troiani, *Interpretability for Turing Machines*, preprint, arXiv:2609.04661 (2026). [=]Equal contribution.

Theses and reports
- Rumi Salazar, *A Link Between Quotients in Symplectic and Algebraic Geometry*, Honours thesis, UNSW Sydney (2020). Supervised by Daniel Chan.
- Rumi Salazar, *The Shape of a Drum*, AMSI Vacation Research Scholarship report (2019). Supervised by Michael Cowling.

Talks
- **November 2026**, Melbourne, Learning at the Singularity Mini-Seminar, University of Melbourne, "What Is Singular Learning Theory?".
- **August 2020**, Sydney, Honours thesis talk, UNSW, "An Interesting Connection between Symplectic Geometry and Geometric Invariant Theory".
- **February 2019**, Melbourne, AMSI Connect, "The Shape of a Drum".

Organisation
- **November 2026**, Melbourne, Learning at the Singularity Mini-Seminar, University of Melbourne, co-organised with Yulia Alexandr and Will Troiani.

Teaching
- **University of Sydney:** tutorials for MATH1004, MATH1011, MATH1013, MATH1023 and MATH2021, 2021–2023.
- **UNSW Sydney:** tutorials for MATH1131, MATH1141, MATH1151 and MATH1231, and for the University Preparation Program courses REGZ9070, REGZ9072 and REGZ9073, 2021–2023.

Awards
- **2024** – Melbourne Research Scholarship and Australian Government Research Training Program Scholarship (University of Melbourne).
- **2019** – AMSI Vacation Research Scholarship.
- **2018** – UNSW Science Summer Vacation Research Scholarship; Faculty of Science Dean's List (UNSW).
- **2017** – Faculty of Science Prize for 2nd Year Advanced Science; Faculty of Science Dean's List (UNSW).