

RESEARCH
EXPERIENCE**2021, Australian National University** (honors thesis)*Uniqueness of tangent flows in mean curvature flow*, supervised by [Prof. Ben Andrews](#). My thesis is an exposition to mean curvature flow followed by a detailed discussion of two influential papers. [\[link to thesis\]](#)**2020–21, Australian Mathematical Sciences Institute***Topological phases in quantum spin systems*, supervised by [Dr. Thomas Quella](#). Using analytical and numerical methods, I investigated symmetry protection in the q -deformed AKLT model of quantum spin chains. The results of this research are being prepared for publication. [\[link to report\]](#)**2019–20, University of Melbourne***Label-noise generative adversarial networks*, supervised by [Dr. Mingming Gong](#). I designed and implemented models for image generation in the presence of corrupt training data. [\[link to report\]](#)

EDUCATION

2021, Australian National University, Canberra, Australia.

Bachelor of Mathematical Sciences (Honors), GPA 7.00/7.00.

2018–20, University of Melbourne, Melbourne, Australia.

Bachelor of Science (Mathematics and Statistics), weighted average 94/100.

2011–17, Sha Tin College, Hong Kong.

International Baccalaureate Diploma Program, 45/45, valedictorian.

HONORS AND
AWARDS**2021, ANU Mathematical Sciences Institute Honors Scholarship**

Merit scholarship (value: AUD 5000)

2020, Dixon Prize (Pure Mathematics)

Top scorer in third year pure mathematics (AUD 430)

2018, 2020, University of Melbourne Dean's HonorsTop 3% of students in each faculty (*ineligible for the 2019 award due to program transfer*)**2019, Maurice H. Belz Prize in Statistics**Top scorer in the subjects *Probability* and *Statistics* (AUD 410)**2018–20, University of Melbourne Chancellor's Scholarship**

Entrance scholarship (full tuition + AUD 10000 p.a. for duration of degree)

TALKS

Gauge Theory and Symplectic Geometry, ANU, 2021. *The Chern–Weil construction*.ANU MSI Honors Conference, 2021. *Uniqueness of tangent flows in mean curvature flow*. [\[link to slides\]](#)ANU MSI Honors Conference, 2021. *Singularities in the mean curvature flow*. [\[link to slides\]](#)AMSIConnect Student Conference, 2021. *Topological phases in quantum systems with quantum group symmetries*. [\[link to slides\]](#)University of Melbourne, 2020. *Label-noise robust twin auxiliary classifier GANs*. [\[link to slides\]](#)WORK
EXPERIENCE**2021, Teaching Assistant**, Australian National University.I tutored ~ 40 students per semester in MATH1005 (Discrete Mathematical Models) and MATH1013 (Mathematics and Applications 1). I gave weekly workshops and graded assignments.**2018–20, Mentor**, The Institute for Enquiring Minds.

I volunteered to teach mathematics to Year 11–12 students from financially disadvantaged backgrounds, after school on a one-to-one basis.

2017–20, Tutor, self-employed.

I delivered over 600 hours of tutoring in math, physics and economics at IB and VCE levels.

2018–19, Business Analyst Intern, SW Global Consulting Ltd.

I conducted due diligence to advise clients on investment decisions.

PROGRAMMING Python (proficient, ~3.5 years), C (intermediate, ~2 years)

PERSONAL Email: mike.law0616@gmail.com

Languages: English (native), Cantonese (fluent), Mandarin (reading/listening only)

Citizenship: Dual Hong Kong/Australia