

KAVISHA VIDANAPATHIRANA

[homepage](#) ◊ [scholar](#) ◊ [github](#) ◊ [linkedin](#)

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EDUCATION

PhD. Electrical Engineering and Robotics (reading) *Jan 2020 onward*
Queensland University of Technology (QUT) in collaboration with CSIRO.
Thesis topic: *Geometric Constraints for 3D Data Association.*

BSc. Eng. (Hons.) Electronic and Telecommunication Engineering *Oct 2014 - Dec 2018*
University of Moratuwa, Sri Lanka First Class

SELECT FIRST-AUTHOR PUBLICATIONS

- ‘Multi-Body Neural Scene Flow’, *2024 International Conference on 3D Vision (3DV)*. [code](#)
- ‘Spectral Geometric Verification: Re-Ranking Point Cloud Retrieval for Metric Localization’, *2023 IEEE Robotics and Automation Letters (RA-L)*. [code](#)
- ‘LoGG3D-Net: Locally Guided Global Descriptor Learning for 3D Place Recognition’, *2022 IEEE International Conference on Robotics and Automation (ICRA)*. [code](#)
- ‘Locus: LiDAR-based Place Recognition using Spatiotemporal Higher-Order Pooling’, *2021 IEEE International Conference on Robotics and Automation (ICRA)*. [code](#)

PROFESSIONAL EXPERIENCE

Research Intern *Oct 2022 - May 2023*
The Australian Institute for Machine Learning (AIML)
- *Research on 3D multi-object tracking and scene flow, advised by Prof. Simon Lucey.*

Lecturer (Sessional) *Jul 2019 - Jan 2020*
Department of Electronic & Telecommunication Engineering, University of Moratuwa
- *Lecturer: EN1802 Basic Electronics. - TA: EN4593 Autonomous Systems*

Instructor *Feb 2019 - Jul 2019*
Department of Electronic & Telecommunication Engineering, University of Moratuwa
- *TA: EN4563 Robotics, EN2523 Robot Design and Competition, EN2090 Laboratory Practice - II*

Trainee Associate Electronics Engineer *Jun - Dec 2017*
Zone24x7 Pvt. Ltd.
- *Research on path planning in retail store environments for an autonomous inventory tracking robot.*

AWARDS

- ICRA 2022 - 2nd place in the General Place Recognition Competition organized by AirLab, Carnegie Mellon University. [Invited talk.](#)

STANDARDIZED TESTS

- GRE General Test: VR: 160, QR: 168, AW: 5.0 (August 2019)

TECHNICAL SKILLS & COMPETENCIES

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|------------------------------|--------------------------|
| Programming | python, C++, Matlab |
| Libraries & tools | pytorch, tensorflow, ROS |