Mikaela Angelina Chan Uy

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Stanford, CA 93405

Email: mikacuy@stanford.edu
https://mikacuy.github.io

Education

Stanford University — **CA, USA**
Ph.D. Candidate in Computer Science — Sept 2019 – present
Fall Rotation with Prof. Leonidas Guibas

National University of Singapore — **Singapore**
Master of Computing (Computer Science); CAP: 4.58/5.0 — Aug 2017-Jul 2018
Thesis: PointNetVLAD: Deep Point Cloud Based Retrieval for Large-Scale Place Recognition
Scholarship: NUS Graduate Scholarship for ASEAN Nationals (full masters scholarship)

Hong Kong University of Science and Technology — **Hong Kong**
BSc. in Mathematics and Computer Science — Sept 2013-Aug 2017
CGA: 3.84/4.3; Comp Sci CGA: 4.16/4.3; First Class Honors
Scholarship: HKSAR Government Targeted Scholarship (full 4-year university scholarship)

Swiss Federal Institute of Technology (ETH Zurich) — **Zurich, Switzerland**
Exchange Student in Department of Computer Science — Feb-Jun 2016

Saint Jude Catholic School (High School Salutatorian, GPA 95.85) — **Manila, Philippines**

Publications

PointNetVLAD: Deep Point Cloud Based Retrieval for Large-Scale Place Recognition
Mikaela Angelina Uy and Gim Hee Lee
Computer Vision and Pattern Recognition (**CVPR**), 2018.
Website: https://github.com/mikacuy/pointnetvlad.git

Revisiting Point Cloud Classification: A New Benchmark Dataset and Classification Model on Real-World Data
Mikaela Angelina Uy, Quang-Hieu Pham, Binh-Son Hua, Duc Thanh Nguyen, Sai-Kit Yeung
International Conference of Computer Vision (**ICCV**), 2019. **Oral Presentation**
Website: https://hkust-vgd.github.io/scanobjectnn/

Work Experiences

Hong Kong University of Science and Technology — **Hong Kong**
Research Assistant — Sept 2018-Jun 2019
- 3D scene understanding and point cloud learning using deep learning techniques
- Supervisor: Assoc. Prof. Sai-Kit Yeung

ePropulsion — **Songshan Lake, China**
Research and Development Intern — Jun-Aug 2016
- Computer vision, machine learning and image processing
- Project: Underwater diver detector over a video feed that is to be implemented on an underwater robot. (Start-up is currently called Navatics)

Jane Street Capital — **Hong Kong/New York, USA**
Trader Intern — Jun-Aug 2015
- Designed and developed tools to perform data analysis and to identify trading opportunities for the exchange trade funds (ETF) and commodities desks

Department of Computer Science, HKUST — **Hong Kong**
Lab Assistant — Sept–Dec 2014
- Taught in Introductory to Computer Science class (Python)

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Projects

Master's Thesis Aug 2017–May 2018

- Posed the problem of place recognition as a point cloud retrieval problem using deep learning, leveraging on illumination and seasonal invariance of point clouds which is a known problem in image-based place recognition. (CVPR 2018 accepted paper)

Bachelor's Thesis (Underwater Robotics Vision) Jul 2016–May 2017

- Advised by Prof. Chi-Keung Tang
- Studied the performance of real-time object detection models, both using handcrafted features and deep learning networks, for underwater diver detection in robotics applications.

Smart Shirt & Smart App Oct-Nov 2015

- **First Runner-Up-** The Hong Kong Designathon 2015
- Developed a prototype of a smart shirt to detect human posture connected to an Android app. Team comprised of 2 engineers and 2 business students.

Co-curricular Activities

HKUST Robotics Team, Remotely Operated Vehicle (ROV) Sub team
Software Engineer Dec 2014- Dec 2015

- **Overall 3rd Place** (Explorer Class) – 14th Annual MATE International Underwater Robotics Competition in *St John's, Newfoundland and Labrador, Canada*
- **Asia Champion** in 2015 MATE Asia Regional Underwater Robotics Competition
- Built the main control software of the ROV and Qt GUI's for the competition runs.
- The team composed of 15 engineers who built and designed the ROV from scratch.

Awards

School of Engineering Fellowship, *Stanford University* 2019-2020

HKSAR Government Targeted Scholarship 2013-2017

- Full university scholarship that is awarded to up to 10 students each year by the Hong Kong government awarded based on academic and leadership performance.

NUS Graduate Scholarship for ASEAN Nationals 2017-2018

- Full masters scholarship that is non-binding, financed by the People of Singapore and the University that is awarded on a competitive basis.

International Mathematical Olympiad (IMO) Bronze Medalist 2012, 2013

Epsilon Fund Award, *HKUST Mathematics Department* 2017

- The Epsilon Fund Award is established with donations from faculty to honor mathematics students, who excel in mathematical scholarship and research.

Google Women Techmakers Scholarship; *Asia Pacific* 2016

- Given to a group of female undergraduate and graduate students from around Asia Pacific, who are awarded based on academic background and demonstrated leadership.
- Sponsored to Google I/O 2017 in Mountain View, California last May 2017.

Talent Development Scholarship, HKSAR Government Scholarship Fund 2016

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	Lee Hysan Foundation Exchange Scholarship	2016
	Philippine Mathematical Olympiad 1st runner-up	2012, 2013
	Raffles Mathematical Olympiad, *Silver Medalist,* Singapore	2012
Technical Skills	Python, C/C++, Unix, Tensorflow, MATLAB, OpenCV, ROS, microcontroller programming	
Volunteer Activities	**Competitive Math Trainor**	**Philippines**
	Trained the PH IMO Team '17-'19; PH team leader for various elementary Math Olympiads	
Sports	HKUST Women's Football Team Member; Frisbee; Scuba Diving	
Languages	**Native**: English, Filipino, Hokkien; **Proficient**: Mandarin; **Basic**: Cantonese, German	