

Mikaela Angelina Chan Uy

781 Escondido Rd, Blackwelder Highrise
Stanford, CA 93405

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

Education	Stanford University Ph.D. Candidate in Computer Science Fall Rotation with Prof. Leonidas Guibas	CA, USA Sept 2019 – present
	National University of Singapore Master of Computing (Computer Science); CAP: 4.58/5.0 <i>Thesis: <u>PointNetVLAD: Deep Point Cloud Based Retrieval for Large-Scale Place Recognition</u></i> Scholarship: NUS Graduate Scholarship for ASEAN Nationals (full masters scholarship)	Singapore Aug 2017-Jul 2018
	Hong Kong University of Science and Technology BSc. in Mathematics and Computer Science CGA: 3.84/4.3; <u>Comp Sci CGA: 4.16/4.3</u> ; <u>First Class Honors</u> Scholarship: HKSAR Government Targeted Scholarship (full 4-year university scholarship)	Hong Kong Sept 2013-Aug 2017
	Swiss Federal Institute of Technology (ETH Zurich) Exchange Student in Department of Computer Science	Zurich, Switzerland 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 <u>Mikaela Angelina Uy</u> 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 <u>Mikaela Angelina Uy</u> , 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 <i>Research Assistant</i>	Hong Kong Sept 2018-Jun 2019
	<ul style="list-style-type: none">3D scene understanding and point cloud learning using deep learning techniquesSupervisor: Assoc. Prof. Sai-Kit Yeung	
	ePropulsion <i>Research and Development Intern</i>	Songshan Lake, China Jun-Aug 2016
	<ul style="list-style-type: none">Computer vision, machine learning and image processingProject: 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 <i>Trader Intern</i>	Hong Kong/New York, USA Jun-Aug 2015
	<ul style="list-style-type: none">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 <i>Lab Assistant</i>	Hong Kong Sept-Dec 2014
	<ul style="list-style-type: none">Taught in Introductory to Computer Science class (Python)	

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Projects	Master's Thesis	Aug 2017–May 2018
	<ul style="list-style-type: none">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
	<ul style="list-style-type: none">Studied the performance of real-time object detection models, both using handcrafted features and deep learning networks, for underwater diver detection in robotics applications. Received an A+.	
	Smart Shirt & Smart App	Oct-Nov 2015
	<ul style="list-style-type: none">First Runner-Up- The Hong Kong Designathon 2015Developed 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	
	<i>Software Engineer</i>	Dec 2014- Dec 2015
	<ul style="list-style-type: none">Overall 3rd Place (Explorer Class) – 14th Annual MATE International Underwater Robotics Competition in <i>St John's, Newfoundland and Labrador, Canada</i>Asia Champion in 2015 MATE Asia Regional Underwater Robotics CompetitionBuilt 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
	<ul style="list-style-type: none">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
	<ul style="list-style-type: none">Lone recipient from NUS School of Computing in 2017.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
	<ul style="list-style-type: none">One of two Philippines' female medalists (historically)The IMO is the world championship mathematics competition for high school students held annually in different countries, which is participated by over 500 students from over 100 countries, where each country sends at most 6 candidates.	
	Epsilon Fund Award, HKUST Mathematics Department	2017
	<ul style="list-style-type: none">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
	<ul style="list-style-type: none">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.	

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Talent Development Scholarship , HKSAR Government Scholarship Fund	2016
Lee Hysan Foundation Exchange Scholarship	2016
Philippine Mathematical Olympiad 1st runner-up	2012, 2013
Raffles Mathematical Olympiad , <i>Silver Medalist</i> , 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