

# Christine Wun Ki SUEN

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<https://christine715.github.io/personal-website/#>

## EDUCAION

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**BSc (Hons) Geomatics**, The Hong Kong Polytechnic University (PolyU). 2017-2021  
First Class Honours, Department of Land Surveying and Geomatics.  
Thesis title: “Persistent Homology: Hole Detection in LiDAR Point Clouds with Topological Data Analysis.” Advisor: Dr. Wai Yeung Yan.

## WORK HISTORY

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**Research Assistant**, The Hong Kong Polytechnic University. Since 08/2021  
*Dr. Xintao LIU & Dr. Wai Yeung YAN, Department of Land Surveying and Geomatics.*

- Research Project: “Towards a digital-twin system for smart mobility for People with Disabilities (PwDs) using multi-data sensing and big data analytics”.
- Journal Paper: “Hole Classification in LiDAR Point Clouds with Persistent Homology and Machine Learning” (preparing).

**Student Research Assistant**, The Hong Kong Polytechnic University. 2020 – 2021  
*Sr. Prof. WONG Man-sing, Department of Land Surveying and Geomatics.*

- Research Project: “Use of Multispectral Images on 3D LiDAR Models in Monitoring the Health Conditions and Structural Stability of Old and Valuable Trees and Stonewall Trees”.

**STEM Intern**, The Innovation and Technology Commission. 2020 – 2021  
*Department of Land Surveying and Geomatics.*

- Project: “Establishment of Geodetic Network in PolyU”.
- Explored the advanced technology, e.g., LiDAR and UAV.

**Summer Intern**, The Hong Kong Special Administrative Region Government. 2019 – 2020  
*Civil Engineering and Development Department.*

- Construction projects: “Development of a Bathing Beach at Lung Mei” and “Disposal of Contaminated Sediment-dredging, management and capping of sediment disposal facility at Sha Chau/ Cheung Chau”.
- Conducted UAV survey to monitor the construction project.

**Summer Intern**, The Hong Kong Special Administrative Region Government. 2018 – 2019  
*Land Information Center, Lands Department.*

- Research Project: “The 3D Pedestrian Network Project”.

## AWARDS AND HONOURS

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**Hong Kong Institute of Surveyors (HKIS) Best Dissertation Awards, HKIS.** 2021

My BSc dissertation was nominated as the best dissertation among the division of Geomatics over undergraduate students (result not yet released).

**First Runner Up, 2021 Student BIM Challenge, Bentley Institute.** 2021

My BIM project, which integrates the modern artworks with BIM, was awarded because of its innovation in infrastructure design and management.

**PolyU Outstanding Work, The Faculty of Construction and Environment, PolyU.** 2021

Ir Prof Michael Yam from PolyU FCE endorsed that my BIM project will further inspire the PolyU community and the product was exhibited in the campus.

**Dean's Honors List, The Faculty of Construction and Environment, PolyU.** 2020 & 2021

I was awarded because of the academic excellence in the third and fourth year.

**First Prize, The Hong Kong Institute of Surveyors Scholarship, HKIS.** 2020 - 2021

I was awarded as the top student in Geomatics.

**The Wong Kam Fung Scholarship, Wong Kam Fung.** 2020

The scholarship awards student with academic excellence and future leadership.

## OTHER EXPERIENCE

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**Teaching Assistant** Since 08/2021

*Department of Land Surveying and Geomatics, The Hong Kong Polytechnic University.*

- Assisted the undergraduate subject, "Land Surveyors in Society".
- Provided counselling, guidance and support in academic to students.

**Outstanding Student Sharing** 2020 & 2021

*Department of Land Surveying and Geomatics, The Hong Kong Polytechnic University.*

- Represented the senior students to give sharing to hundreds of new students about university life, study experience and keys to success.

**Summer Exchange, Wuhan University.** 2019 - 2020

*School of Remote Sensing and Information Engineering.*

- Explored "Remote Sensing" in one of the best colleges in China.
- Prompted the tourism development of an underprivileged village by filming video using UAV.

**Student Assistant**

2019 - 2020

*Department of Land Surveying and Geomatics, The Hong Kong Polytechnic University*

- Assisted student in conducting UAV survey to construct 3D model.
- Shared knowledge and experience to students to enhance their study.

**PERSONAL INFORMATION**

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**Languages**

Cantonese (native), English (fluent), Mandarin (fluent)

**Programming Languages**

C, Java, Python, HTML, MATLAB