

WANG, QIAN (Dr)

PhD (Civil and Environmental Engineering) HKUST & KAIST, BEng (Project Management) Tsinghua



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CURRICULUM VITAE

ACADEMIC QUALIFICATIONS:

- PhD (Civil and Environmental Engineering) (2017), The Hong Kong University of Science and Technology, Hong Kong
- PhD (Civil and Environmental Engineering) (2017), Korea Advanced Institute of Science and Technology, South Korea (*Under the HKUST-KAIST Joint PhD Degree Program*)
- BEng (Project Management) (2013), Tsinghua University, China

EMPLOYMENT RECORD:

- Assistant Professor (2017 – Present), Department of Building, National University of Singapore, Singapore
- Research Assistant (2014-2015 & 2016-2017), The Hong Kong University of Science and Technology, Hong Kong
- Research Assistant (2013-2014 & 2015-2016), Korea Advanced Institute of Science and Technology, South Korea

UNDERGRADUATE TEACHING:

- PF1103 IT and BIM for Projects
- PF2201 Scope and Design Management

GRADUATE TEACHING:

- PM5113 Managing Projects using BIM

RESEARCH INTERESTS:

- Building Information Modeling
- Construction Information Technology
- 3D Laser Scanning and Photogrammetry
- Machine Learning and Image Processing

HONORS & AWARDS

- Student Travel Grant, The 3rd International Conference on Civil and Building Engineering Informatics (ICCBEI 2017), Taiwan, 2017
- Postgraduate Scholarship, HKUST, 2014 & 2016
- ICC Postgraduate Scholarship, KAIST, 2013 & 2015
- Academic Scholarship, Tsinghua University, 2010-2012
- Outstanding Campus Guide Volunteer, Tsinghua University, 2011
- Social Practice Silver Award, Tsinghua University, 2010

SELECTED PUBLICATIONS:

- Wang, Q., Cheng, J.C.P.* and Sohn, H., 2017. Automated estimation of reinforced precast concrete rebar positions using colored laser scan data. *Computer-Aided Civil and Infrastructure Engineering*. (*Accepted*)
- Kim, M.K., Wang, Q., Park, J.W., Cheng, J.C.P., Sohn, H.*, Chang, C. C., 2016. Automated dimensional quality assurance of full-scale precast concrete elements using laser scanning and BIM. *Automation in Construction*, 72, pp.102-114.
- Wang, Q., Sohn, H.* and Cheng, J.C.P., 2016. Development of a mixed pixel filter for improved dimension estimation using AMCW laser scanner. *ISPRS Journal of Photogrammetry and Remote Sensing*, 119, pp.246-258.
- Wang, Q., Kim, M.K., Cheng, J.C.P. and Sohn, H.*, 2016. Automated quality assessment of precast concrete elements with geometry irregularities using terrestrial laser scanning. *Automation in Construction*, 68, pp.170-182.
- Wang, Q., Kim, M.K., Sohn, H. and Cheng, J.C.P.*, 2016. Surface flatness and distortion inspection of precast concrete elements using laser scanning technology. *Smart Structures and Systems*, 18(3), pp. 601-623.