

## CV of Ye Qian:

### 1. Academic Qualification

- (1) PhD (2016), Columbia University in the City of New York, USA
- (2) M.E. (2013), Hokkaido University, Sapporo, Japan
- (3) B.S. (2011), Huazhong University of Science and Technology, Wuhan, China

### 2. Positions Held (Chronological Order)

- (1) Assistant Professor, Department of Civil Engineering, HKU
- (2) Research Fellow, Singapore Centre for 3D Printing, Nanyang Technological University, Singapore (02/2018-08/2019)
- (3) Postdoctoral Researcher, Mangel Laboratory for Concrete Research, Ghent University, Belgium (02/2017-12/2017)

### 3. Research Areas Related to Ocean Science, Technology and/or Policy

Dr. Qian studies smart construction materials and technologies, including for marine environment, such as using 3D printing to print coral reefs and underwater concrete.

### 4. Funded Research Projects as Principal Investigator (PI), Co-PI or Co-Investigator (Co-I) over the Past 5 Years (Maximum 5 Projects):

- (1) ---
- (2) ---
- (3) ---
- (4) ---
- (5) ---

### 5. Five Key Publications over the Past 5 Years (\*Corresponding author)

- (1) Y.W.D. Tay, Y. Qian\* and M.J. Tan. "Printability region for 3D concrete printing using slump and slump flow test." *Composites Part B: Engineering* (2019): 106968
- (2) Ye Qian\* and Geert De Schutter. "Enhancing thixotropy of fresh cement pastes with

nanoclay in presence of polycarboxylate ether superplasticizer (PCE)”. *Cement and Concrete Research*. 111 (2018): 15-22

- (3) Ye Qian\*, Karel Lesage, Khadija El Cheikh and Geert De Schutter. “Effect of polycarboxylate ether superplasticizer (PCE) on dynamic yield stress, thixotropy and flocculation state of cement pastes in consideration of the Critical Micelle Concentration (CMC)”. *Cement and Concrete Research*. 107 (2018): 75-84
- (4) Ye Qian and Shiho Kawashima\*. "Use of creep recovery protocol to measure static yield stress and structural rebuilding of fresh cement pastes". *Cement and Concrete Research*. 90 (2016): 73-79
- (5) Ye Qian and Shiho Kawashima\*. "Flow onset of fresh mortars in rheometers: contributions of paste deflocculation and sand particle migration". *Cement and Concrete Research*. 90 (2016): 97-103

## 6. Awards and Recognition

- (1) **XXX**, ---
- (2) **XXX**, ---
- (3) **XXX**, ---
- (4) **XXX**, ---
- (5) **XXX**, ---