



## Jia GUO (郭佳)

Email : [kaku.ka.25x@st.kyoto-u.ac.jp](mailto:kaku.ka.25x@st.kyoto-u.ac.jp); [guoguo142@126.com](mailto:guoguo142@126.com)

Cell: +81-7043879007; Date of birth: 07/30/1987

Address: Katsura campus, C1-3-391, Kyoto University, Kyoto Japan, 610-1141



### Education

<b>Ph.D.</b> in Architectural Engineering (expected)	<b>Kyoto University</b>	2016.10-2019.09
<b>Master</b> in Civil Engineering, <b>Top 5</b> in 50 graduates	<b>Tsinghua University</b>	2009.08-2012.06
<b>Bachelor</b> in Civil Engineering, <b>Top 14</b> in 90 undergraduates	<b>Tsinghua University</b>	2005.08-2009.08

### Previous Appointments

<b>Associate Researcher</b>	Research Institute of Highway, Ministry of Transport, China	2012.07-2016.09
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### Awards

**Japanese Government Scholarship (University-nominated)**, Monbukagakusho (MEXT), 2016 – 2019  
**First Prize** of the Science and Technology Award of China Highway & Transportation Society (CHTS), 2017  
**Grand Prize** of the Science and Technology Award of China Highway & Transportation Society (CHTS), 2015  
**Tsinghua University Outstanding Master's Thesis**, only two in Department of Civil Engineering, 2012  
**Best Paper Award**, the 20<sup>th</sup> National Conference on Structural Engineering, Ningbo, China. Nov 2011  
**Excellent Teaching Assistant** in Structural Mechanics I, II, 2011  
**Academic Excellence Scholarship** of Tsinghua University, 2006, 2007, 2008, 2010, 2011  
**First Prize** of 13<sup>th</sup> "Tsinghua-Golden Gazelle Cup" Structure Design Competition, Professional group, 2007

### Research Areas

**Advanced signal processing and vision-based techniques to structural dynamics** (Present)  
Finite element modeling, modal testing, model updating, and structural damage detection (Ph.D.)  
Structural Health Monitoring of large-scale bridges (Research Institute of Highway)  
Earthquake engineering (Master)

### List of Major Publications (2017-present)

- [1] **Guo J**, Wang L, Takewaki I. Frequency response-based damage identification in frames by minimum constitutive relation error and sparse regularization. *Journal of Sound and Vibration*, 443: 270-292, 2019.
- [2] **Guo J**, Wang L, Takewaki I. Modal-based structural damage identification by minimum constitutive relation error and sparse regularization. *Structural Control and Health Monitoring*, 25(12): e2255, 2018.
- [3] **Guo J**, Wang L, Takewaki I. Static damage identification in beams by minimum constitutive relation error. *Inverse Problems in Science and Engineering*: 1-25, 2018.
- [4] **Guo, J.**, Deng, K., He, M., Zhao, C., & Li, W. Experimental study on the construction stages of an RC closure pour in bridge widening. *Journal of Bridge Engineering*, 22(12): 06017007, 2017.
- [5] **Jia Guo**, Jiao Jian, Kohei Fujita, and Izuru Takewaki, Vision-based damage identification of full-field vibration modes from high-speed camera. *Engineering Structures*, 2019 (in review).
- [6] **Jia Guo**, Jiao Jian, Kohei Fujita, and Izuru Takewaki, A spectrum-driven damage identification by minimum constitutive relation error. *Mechanical Systems and Signal Processing*, 2018 (in review).
- [7] **Guo J**, Deng K, Takewaki I. Physical-based parametrization and identification for frame-type structures using response sensitivity approach in time domain. *Structural Control and Health Monitoring*, 2018 (in review).
- [8] **Guo J**, Wang L, Takewaki I. Comparative study of damage identification algorithms using sensitivity approach on experiment frame structures. *Computers & Structures*, 2019 (in review).