

## Hongyi Cai, PhD, LC

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### PROFESSIONAL PREPARATION

Central South University, China	Architectural Engineering	B.Eng.	1997
Chongqing University, China	Architectural Technology and Science	M.Eng.	2000
University of Michigan	Architecture	M.S.	2005
University of Michigan	Architecture	Ph.D.	2008

### APPOINTMENTS

2010 – present	Assistant and Associate Professor, Department of Civil, Environmental & Architectural Engineering, University of Kansas (KU), Lawrence, KS
Sept – Oct. 2019	Visiting Professor, Department of Architecture, Faculty of Science and Technology, Tokyo University of Science (TUS), Japan
2009 – 2010	Research Associate, Hong Kong Polytechnic University, Hong Kong
2007 – 2009	Application Engineer, WAC Lighting Company, New York, NY

### PUBLICATIONS (Corresponding (lead) author underlined)

- He, S., Yan, Y., & Cai, H. (2022). Improving the Accuracy of Circadian Lighting Simulation with Field Measurement. *Journal of Building Performance Simulation*, 15(5), 575-598.
- Li, H., Diederich, S., & Cai, H. (2022). A new LED luminaire system architecture for energy saving. *Indoor and Built Environment*, 31(6), 1654-1674.
- Li, H., & Cai, H. (2022). Lighting measurement with a 360° panoramic camera, Part 1: Technical Procedure and Validation. *Lighting Research & Technology. OnlineFirst.*
- Li, H., & Cai, H. (2022). Lighting measurement with a 360° panoramic camera, Part 2: Applications. *Lighting Research & Technology. OnlineFirst.*
- Poling R. M., & Cai, H. (2021). Calculating luminous flux radiated to a camera lens via high dynamic range photogrammetry. *Lighting Research & Technology*, 53(2), 119-145.
- Li, H., Cai, H., & Wang, G. (2020). Improving High Dynamic Range Image Based Light Measurement. 2020 IEEE International Conference on Systems, Man, and Cybernetics.

### PATENTS

- “*Integrated Light and Heat Arrangement of Low Profile Light-Emitting Diode Fixture*” (Patent No. US 10,215,441 B2). Issued on Feb 26, 2019. Inventors: Hongyi Cai.
- “*Heated Lens Lighting Arrangement*” (Patent No. US 10,253,965 B2). Issued on Apr 9, 2019. Inventors: Hongyi Cai (40%), Steven D. Schrock (30%), Eric J. Fitzsimmons (30%).
- “*Heated Lens Lighting Arrangement*” (Patent No. US 9,851,086 B2). Issued on Dec 26, 2017. Inventors: Hongyi Cai (40%), Steven D. Schrock (30%), Eric J. Fitzsimmons (30%).