

Curriculum Vitae

Zhigang Shen

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1. Education

- Ph.D. in Design, Construction and Planning, University of Florida, 2007
- M.S. in Computer Engineering, University of Florida, 2003
- Master of Architecture, Tongji University (China), 1997
- Bachelor of Engineering in Architecture, Zhengzhou University (China), 1992

2. Academic Experience

- Professor, 2023-present, University of Nebraska–Lincoln
- Associate Professor, 2013-2023, University of Nebraska–Lincoln
- Visiting Associate Professor, 2014-2015, New York University
- Assistant Professor, 2007-2013, University of Nebraska–Lincoln
- Assistant Professor, 2005-2007, University of Wisconsin – Stout

3. Publications



4. Funded External Research Grants

	Short Project Title	Funding Agency	Year	PI / Co-PI	Total \$
11	UAS-assisted gas pipeline modeling and inspection	US DOT	2019-2023	PI	249,964
10	Automating detection of bridge deck defects using aerial thermography	NDOT	2019-2020	PI	109,844
9	Detecting, Locating and Mapping Internal Gas Pipeline Corrosion using Thermography and Photogrammetry	US DOT	2018-2022	PI	299,998
8	Early Detection of Near-surface Void Defects in Concrete Pavement Using UAV-Thermography	NDOT	2018-2019	PI	94,668
7	IMPACT-Trade Adjustment Assistance	US DOL	2012-2016	Co-PI	725,842
6	3D Element-based Bridge Condition Rating System	NDOT	2013 - 2015	PI	46,091
5	Case-based virtual simulation of project failure	NSF	2011 - 2014	PI	100,000
4	Building Energy Efficient Homes for America	US DOE	2011-2012	CO-PI	528,254

3	Healthcare energy commissioning training	US DOE	2010 - 2013	PI	405,741
2	Decentralized water/energy systems	US EPA	2009-2014	Co-PI	750,000
1	Home Building Education Leadership Program	NAHB	2009 - 2012	Co-PI	75,000
	Total Amount (excluding cost share)				\$ 3,385,402

5. Teaching

5.1. Courses Taught

University of Nebraska-Lincoln

1. CNST 860 - Construction Visualization and Simulation
2. CNST 440 - Building Information Modeling II
3. CNST 378 - Construction Estimating I
4. CNST 379 - Construction Estimating II
5. CNST 225 - Introduction to Building Information Modeling

New York University

1. CE 8313 - Engineering for Construction
2. CE 8303 - Information Systems in Construction
3. CE 8293 - Construction Operation Analysis using BIM
4. CE 2513 - Construction Materials and Methods

University of Wisconsin-Stout

1. AEC 471 - Project Schedule and Construction Control
2. AEC 470 - Construction Estimating II
3. AEC 370 - Construction Estimating I
4. AEC 131 - Architectural Graphics

5.2. Graduated Ph.D. Students

Dr. Guanyao Xu, 2021, Faculty of Xihua University, Chengdu, China

Dr. Chongsheng Cheng, 2020, Faculty of Chongqing Jiaotong University, China

Dr. Zhexiong Shang, 2019, Faculty of Hainan University, China

Dr. Ri Na, 2017, Faculty of University of Delaware, USA

Dr. Endong Wang, 2013, Faculty of State University of New York, USA

6. Awards

1. 2022 UNL Outstanding Postdoc Mentor Award
2. 2020-2021 Excellence in Research of College of Engineering, UNL
3. 2019-2020 Excellence in Research of College of Engineering, UNL
4. 2018 Outstanding Reviewer of Elsevier Journal of Automation in Construction
5. 2017 Outstanding Reviewer of Elsevier Journal of Applied Energy
6. Recipient of UNL College of Engineering Faculty Service Award 2012

7. 2011 Best Feature Article Award of ASCE journal of Leadership and Management in Engineering
8. Inaugural Alumni Pre-doctoral Fellow, the University of Florida, 1999-2003.