

## Sara Aghajanzadeh

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### CONTACT INFORMATION

Department of Computer Science  
University of Illinois  
Urbana Champaign

(316)350-5358  
saraa5@illinois.edu

### RESEARCH INTERESTS

Computational Photography and Computer Vision

### EDUCATION

#### University of Illinois at Urbana Champaign

Ph.D. Computer Science

- Advisor: Dr. David Forsyth
- GPA: 3.93

#### Purdue University

M.S. Electrical and Computer Engineering, May 2020

- Thesis: Camera Placement Meeting Restrictions of Computer Vision
- Advisor: Dr. Yung-Hsiang Lu
- GPA: 3.57

B.S. Computer Information Technology, May 2018

- Inst. Honors: With Highest Distinction
- Minor in Business Management
- GPA: 3.94

### PREPRINTS

**Sara Aghajanzadeh** and David Forsyth, *Towards Robust Low Light Image Enhancement*, 2022. [Online]. Available: <https://arxiv.org/abs/2205.08615>

**Sara Aghajanzadeh** and David Forsyth, *Long Scale Error Control in Low Light Image and Video Enhancement Using Equivariance*, 2022. [Online]. Available: <https://arxiv.org/abs/2206.01334>

### CONFERENCE PAPERS

**Sara Aghajanzadeh**, Roopasree Naidu, Shuo-Han Chen, Caleb Tung, Abhinav Goel, Yung-Hsiang Lu, George Thiruvathukal, *Camera Placement Meeting Restrictions Of Computer Vision*, IEEE International Conference on Image Processing 2020.

Abhinav Goel, Caleb Tung, **Sara Aghajanzadeh**, Isha Ghodgaonkar, Shreya Ghosh, George K. Thiruvathukal, Yung-Hsiang Lu, *Low-Power Object Counting with Hierarchical Neural Networks*, ACM/IEEE International Symposium on Low Power Electronics and Design 2020.

Samira Pouyanfar, Yudong Tao, Anup Mohan, Haiman Tian, Ahmed S. Kaseb, Kent Gauen, Ryan Dailey, **Sara Aghajanzadeh**, Yung-Hsiang Lu, Shu-Ching Chen, Mei-Ling Shyu, *Dynamic Sampling in Convolutional Neural Networks for Imbalanced Data Classification*, IEEE Conference on Multimedia Information Processing and Retrieval 2018.

### JOURNAL PAPERS

Abhinav Goel, **Sara Aghajanzadeh**, Caleb Tung, Shuo-Han Chen, George K. Thiruvathukal, Yung-Hsiang Lu, *Modular Neural Networks for Low-Power Image Classification on Embedded Devices*, ACM Transactions on Design Automation of Electronic Systems, October 2020.

Yung-Hsiang Lu, George K. Thiruvathukal, Ahmed S. Kaseb, Kent Gauen, Damini Rihwani, Ryan Dailey, Deeptanshu Malik, Yutong Huang, **Sara Aghajanzadeh**, Minghao Guo, *See the World through Network Cameras*, IEEE Computer pages 30-40, Vol. 52, Issue 10, October 2019.

BOOK CHAPTER	<b>Sara Aghajanzadeh</b> , Andrew T. Jebb, Yifan Li, Yung-Hsiang Lu, George K. Thiruvathukal, <i>Observing Human Behavior Through Worldwide Network Cameras</i> , Big Data in Psychological Research. American Psychological Association, 2020.	
INVITED TALKS	<i>Rethink Computer Vision with Global Public Cameras</i> , Academia Sinica, Taiwan. (September 2019)	
TEACHING EXPERIENCE	Spring 2021, Fall 2022 Fall 2020 2018-2019	Teaching Assistant, Computational Photography Teaching Assistant, Database Systems Teaching Assistant, Object-Oriented Programming C++ & Java
RESEARCH EXPERIENCE	01/2023-present  Spring 2020  2017-2018	Graduate Research Assistant University of Illinois Advisors: Dr. David Forsyth and Dr. Viktor Gruev Graduate Research Assistant Purdue University Advisor: Dr. Yung-Hsiang Lu Undergraduate Research Lead Purdue University Advisor: Dr. Yung-Hsiang Lu and Dr. George Thiruvathukal
FELLOWSHIP	08/2021-08/2022	Broadening Participation in Computing (BPC) Fellow University of Illinois Advisor: Dr. Nancy Amato
RELEVANT SKILLS	Software Tools: Programming Languages: Languages:	PyTorch, OpenCV, Microsoft Office, Git, LaTeX Python, C++, Java, PL/SQL English, Persian, Turkish(basic)
GRADUATE COURSEWORK	<input type="checkbox"/> Algorithms <input type="checkbox"/> Visual Analytics <input type="checkbox"/> Linear Algebra <input type="checkbox"/> Random Variables and Signals <input type="checkbox"/> Machine Learning <input type="checkbox"/> Deep Learning <input type="checkbox"/> Statistical Learning <input type="checkbox"/> Machine Learning for Signal Processing <input type="checkbox"/> Computational Photography <input type="checkbox"/> Computer Vision <input type="checkbox"/> 3D Vision	