

# Sara Aghajanzadeh

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## CONTACT INFORMATION

Department of Computer Science  
University of Illinois  
Urbana Champaign

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## 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

Joshua Cho, **Sara Aghajanzadeh**, Zhen Zhu, David Forsyth, *Zero-Shot Low Light Image Enhancement with Diffusion Prior*, 2024. [Online]. Available: <https://arxiv.org/abs/2412.13401>

**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, George Thiruvathukal, Yung-Hsiang Lu, *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	<p>Abhinav Goel, <b>Sara Aghajanzadeh</b>, 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.</p> <p>Yung-Hsiang Lu, George K. Thiruvathukal, Ahmed S. Kaseb, Kent Gauen, Damini Rijhwani, Ryan Dailey, Deeptanshu Malik, Yutong Huang, <b>Sara Aghajanzadeh</b>, Minghao Guo, <i>See the World through Network Cameras</i>, IEEE Computer pages 30-40, Vol. 52, Issue 10, October 2019.</p>	
BOOK CHAPTER	<p><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.</p>	
INVITED TALKS	<p><i>Rethink Computer Vision with Global Public Cameras</i> , Academia Sinica, Taiwan. (September 2019)</p>	
TEACHING EXPERIENCE	<p>Spring 2021, Fall 2022 Fall 2020 2018-2019</p>	<p>Teaching Assistant, Computational Photography Teaching Assistant, Database Systems Teaching Assistant, Object-Oriented Programming C++ &amp; Java</p>
RESEARCH EXPERIENCE	<p>01/2023-present  Spring 2020  2017-2018</p>	<p>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</p>
FELLOWSHIP	<p>08/2021-08/2022</p>	<p>Broadening Participation in Computing (BPC) Fellow  University of Illinois Advisor: Dr. Nancy Amato</p>
RELEVANT SKILLS	<p>Software Tools: Programming Languages: Languages:</p>	<p>PyTorch, OpenCV, Microsoft Office, Git, LaTeX Python, C++, Java, PL/SQL English, Persian, Turkish(basic)</p>
GRADUATE COURSEWORK	<div> <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 </div> <div> <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 </div>	