
EDUCATION

- **University of Wisconsin Madison** Madison, WI, USA
Doctor of Philosophy (Ph.D) in Electrical and Computer Engineering ; GPA: 3.88/4.00 *Aug. 2016 – May 2021*
- **Bauman Moscow State Technical University** Moscow, Russia
Master of Laser Engineering and Technologies; GPA: 4.00/4.00 *Sep. 2014 – June 2016*
- **Bauman Moscow State Technical University** Moscow, Russia
Bachelor of Engineering and Technologies; GPA: 3.97/4.00 *Sep. 2010 – June 2014*

EXPERIENCE

- **LandScan** Fresno, CA
Research intern (Applications of time-of-flight cameras, SPAD) *June 2020 - Sep 2020*
- **University of Wisconsin Madison** Madison, WI
Research Assistant(RA) at Computational Optics Group *Sep 2016 - May 2021*
- **University of Wisconsin Madison** Madison, WI
Teaching Assistant(TA) ECE 431 - Digital Signal Processing *Fall 2018, Fall 2020*
- **DARPA: "REVEAL" Program Review** Pittsburgh, PA
Prototype experimental setup demonstration *Fall 2019*
- **AirForce Program Review** Washington D.C.
Research presenter at Remote Sensing Program Review *Fall 2017*
- **Bauman Moscow State Technical University** Moscow, Russia
Research Assistant (Bio-metric systems for human identification using deep learning) *fall 2014 - Spring 2015*
- **Optical System Laboratory** Moscow, Russia
Research Assistant (Interferometer system) *fall 2013 - Summer 2014*
- **Photonics Laboratory** Moscow, Russia
Research Assistant (lasers and cooling systems) *Spring, 2013*

PUBLICATIONS

- [J10] **J.H. Nam**, E. Brandt, S. Bauer, X. Liu, M. Renna, A. Tosi, E. Sifakis, A. Velten, "Low-latency Real-time time-of-flight non-line-of-sight imaging at 5 frames per second," *Nature Communications*, 2021
- [J9] J. Marco, A. Jarabo, **J.H. Nam**, X. Liu, M.Á. Cosculluela, A. Velten, D. Gutierrez, "Virtual light transport matrices for non-line-of-sight imaging," *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)*, 2021
- [J8] J. Peng, F. Mu, **J.H. Nam**, S. Raghavan, Y. Li, A. Velten, Z. Xiong, "Towards Non-Line-of-Sight Photography", under review.
- [J7] M. Renna, **J.H. Nam**, M. Buttafava, F. Villa, A. Velten, A. Tosi, "Fast-Gated 16×1 SPAD Array for Non-Line-of-Sight Imaging Applications," in *Instruments* 4.2 (2020): 14.
- [J6] M.L. Manna, **J.H. Nam**, S.A. Reza, A. Velten, "Non-line-of-sight-imaging using dynamic relay surfaces," in *Optics express* 28.4 (2020): 5331-5339.
- [J5] **J.H. Nam**, and A. Velten, "Super-resolution remote imaging using time encoded remote apertures," in *Applied Sciences* 10.18 (2020): 6458.
- [J4] X. Liu, I. Guillén, M.L. Manna, **J.H. Nam**, S.A. Reza, T.H. Le, A. Jarabo, D. Gutierrez, A. Velten, "Non-line-of-sight imaging using phasor-field virtual wave optics," in *Nature* 572.7771 (2019): 620-623.

- [J3] M.L. Manna, X. Liu, **J.H. Nam**, M. Laurenzis, A. Velten, "A line-of-sight approach for non-line-of-sight imaging (conference presentation)," in Computational Imaging IV. Vol. 10990. International Society for Optics and Photonics, 2019.
- [J2] M. Laurenzis, M.L. Manna, M. Buttafava, A. Tosi, **J.H. Nam**, M. Gupta, A. Velten, "Advanced active imaging with single photon avalanche diodes," in Emerging Imaging and Sensing Technologies for Security and Defence III; and Unmanned Sensors, Systems, and Countermeasures. Vol. 10799. International Society for Optics and Photonics, 2018.
- [J1] A. Velten, M. L. Manna, **J.H. Nam**, X. Liu, "Non-line-of-sight 3D imaging (Conference Presentation)," in Three-Dimensional Imaging, Visualization, and Display, 2018

PROFESSIONAL ACTIVITIES

- **Paper Reviewer:** Optics Express(2020, 2021)

PROGRAMMING SKILLS

- **Languages:** MATLAB, C++, Latex
- **Technologies:** AWS, Google Cloud Platform, Colab, Github, Bitbucket
- **Softwares:** AutoCAD, MathCAD, Zemax, Solidworks, Micro-Cap

LANGUAGES

- **Korean:** Native
- **English:** Fluent
- **Russian:** Fluent

MENTORSHIP

- **Sabhatina Palani Selvam:** Master student, 2019-2020
- **Daniel Jonathan Noah:** Undergraduate student, 2017