Sri Hrushikesh Varma Bhupathiraju

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EDUCATION

Doctor of Philosophy, PhD, Computer Science   **May 2025**
University of Florida, Gainesville

Master of Science, Computer Science   **May 2021**
University of Florida, Gainesville

B. Tech, Electronics, and Communication Engineering   **May 2019**
B.V. Raju Institute of Technology, India

RESEARCH EXPERIENCE

Cyber-Physical Security (CPSec) Lab, UF.
Supervisor: Dr. Sara Rampazzi, CISE Department.   **Jan 2021 - Present**

Davis Cancer Research Center, UF Health.
Supervisor: Dr. Sanjiv Samant, Radiation Oncology.   **Dec 2020-Aug 2021**

Modern Artificial Intelligence and Learning Technologies Lab, UF.
Supervisor: Dr. Sanjay Ranka, CISE Department.   **Aug 2020-Dec 2020**

Artificial Intelligence and Machine Learning Lab, BVRIT.
Supervisor: Dr. Sanjay Dubey, ECE Department.   **Jan 2018 -May 2019**

TEACHING EXPERIENCE

Cyber-Physical System Security, Graduate Teaching Assistant, UF.
Supervisor: Dr. Sara Rampazzi, CISE Department.

Digital Image Processing, Undergraduate Teaching Assistant, BVRIT.
Supervisor: Dr. Syed Abudhagir Umar, ECE Department.

PUBLICATIONS

[NDSS '24] Takami Sato*, **Sri Hrushikesh Varma Bhupathiraju***, Michael Clifford, Takeshi Sugawara, Qi Alfred Chen, and Sara Rampazzi, "Invisible Reflections: Leveraging Infrared Laser Reflections to Target Traffic Sign Perception." (* denotes co-first).

[IEEE S&P '24] Jennifer Sheldon, Weidong Zhu, Adnan Abdullah, **Sri Hrushikesh Varma Bhupathiraju**, Takeshi Sugawara, Kevin R. B. Butler, Md Jahidul Islam, and Sara Rampazzi. "AquaSonic: Acoustic Manipulation of Underwater Data Center Operations and Resource Management."

[VehicleSec '24] Sri Hrushikesh Varma Bhupathiraju, Takami Sato, Michael Clifford, Takeshi Sugawara, Qi Alfred Chen, and Sara Rampazzi. "Short: On the Vulnerability of Traffic Light Recognition Systems to Laser Illumination Attacks."

[Phys. Med. Biol. '24] Jingxi Weng, **Sri Hrushikesh Varma Bhupathiraju**, Thomas Samant, Alex Dresner, Jian Wu, Sanjiv S Samant. "Convolutional LSTM model for cine image prediction of abdominal motion."

[**ACM WiSec '23**] **Sri Hrushikesh Varma Bhupathiraju**, Jennifer Sheldon, Luke A. Bauer, Vincent Bindschaedler, Takeshi Sugawara, and Sara Rampazzi. "EMI-LiDAR: Uncovering Vulnerabilities of LiDAR Sensors in Autonomous Driving Setting Using Electromagnetic Interference."

[VehicleSec '23] Takami Sato*, **Sri Hrushikesh Varma Bhupathiraju***, Michael Clifford, Takeshi Sugawara, Qi Alfred Chen, and Sara Rampazzi. "WIP: Infrared Laser Reflection Attack Against Traffic Sign Recognition Systems." (* denotes co-first).

[USENIX '23] Yulong Cao, **Sri Hrushikesh Varma Bhupathiraju**, Pirouz Naghavi, Takeshi Sugawara, Z. Morley Mao and Sara Rampazzi. "You Can't See Me: Physical Removal Attacks on LiDAR-based Autonomous Vehicles Driving Frameworks."

[AAPM '23] Jingxi Weng, Mohammad Anas, **Sri Hrushikesh Varma Bhupathiraju**, Thomas Samant, Alex Dresner, Jian Wu, Sanjiv S Samant. "Organ-Specific Abdominal Motion Prediction Using Deep Learning with Cine-MRI."

AWARDS

- ETAS Best Short Paper Award, VehicleSec '23.

- DENSO Best Demo Award, VehicleSec '23.
- Student Travel Grant Award, USENIX '23.
- Student Travel Grant Award, ACM WiSec '23.
- Student Travel Grant Award, VehicleSec '23, '24.