

Azizul Zahid

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RESEARCH INTERESTS

Reinforcement Learning, Deep Learning, Machine learning, On-device Sensors

ACADEMIC CREDENTIALS

University of Tennessee, Knoxville
PhD (ongoing) in Computer Engineering
CGPA: **4.00** out of 4.00

Knoxville, Tennessee
June'23 - Present

Bangladesh University of Engineering and Technology
B.Sc. in Electrical and Electronic Engineering
CGPA: **3.63** out of 4.00

Dhaka, Bangladesh
Feb'17 – May'22

RESEARCH EXPERIENCES

Graduate Research Assistant, EPIC LAB
Supervisor: Dr. Sai Swaminathan
Electrical Engineering and Computer Science (EECS)
University of Tennessee, Knoxville

Knoxville, Tennessee
June'23 - Present

WORK EXPERIENCES

Graduate Teaching Assistant
Courses: Computer Organizations (**COSC 230**)
Electrical Engineering and Computer Science (EECS)
University of Tennessee, Knoxville

Fall'23, Spring'24

PUBLICATIONS

- “*NeuroCamTags: Long-Range, Battery-free, Wireless Sensing with Neuromorphic Cameras*”, Danny Scott, Matthew Bringle, Imran Fahad, Gaddiel Morales, **Azizul Zahid**, Sai Swaminathan, submitted to “*Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT) – 2024*”.
- “*RadioGami: Battery-free, Micropower, Long-Range, Interactive Frequency Selective Surfaces*”, Imran Fahad, Danny Scott, **Azizul Zahid**, Matthew Bringle, Srinayana Patil, Ella Bevins, Carmen Palileo, Sai Swaminathan, submitted to “*Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT) – 2024*”.
- Mir Sayeed Muhammad, **Azizul Zahid**, Md. Asif Iqbal, “*BanglaNum - A Public Dataset for Bengali Digit Recognition from Speech*”, arXiv preprint arXiv: 2403.13465

RELEVANT COURSEWORKS

Graduate level: Reinforcement Learning (ECE 517), Embedded Systems (ECE 555), Bio Inspired Computation (COSC 527), Deep Learning (COSC 525)

Undergraduate level: Probability and Statistics, Linear Algebra, Calculus, Microprocessors and Embedded System, Digital Electronics, Solid State Devices, Communication I & II, Computer Programming theory & Lab, Digital Signal Processing, Control Systems

TECHNICAL SKILLS

Programming Languages: Python, MATLAB, C/C++

Data mining: NumPy, Pandas

Data visualization: Matplotlib, Seaborn

Machine learning: Scikit-Learn

Deep learning: PyTorch, TensorFlow

Others: Git, Latex, MS office

PROJECTS

- “*FlowSync: Synergizing Heartbeat and Algorithms for Dynamic Fluid Control Enhancement.*” – Course project for ECE 517 (Fall’23)
- “*IoT-based Temperature Control System in Poultry Farm.*” – Course project for ECE 555 (Fall’23)
- “*Adaptive Neural Piloting: Exploring Neural Network Applications in Aviation Simulation.*” – Course project for COSC 525 (Spring’24)
- “*Gesture Recognition using Spiking Neural Network.*” – Course project for COSC 527 (Spring’24)

REFERENCES

Dr. Sai Swaminathan
Assistant Professor
EECS, UTK
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