



# Michigan Technological University Computer Science

## Highlights 2021-2022

### Faculty

21 Tenure-track/Tenured  
2 Lecturer Track

### Enrollments – Fall 2021

Computer Science	BS	448
	MS	18
	PhD	28
Software Engineering	BS	96
Cybersecurity	MS	5
Data Science	MS	21

### New Faculty



#### Dukka KC

Associate Professor

Areas of Expertise:

- Bioinformatics
- Data Science
- Machine Learning/Deep Learning
- High-performance Computing



#### Xinyu Lei

Assistant Professor

Areas of Expertise:

- Machine Learning
- Cybersecurity

### Recognitions

Briana Bettin – 2022 Michigan Tech Distinguished Teaching Award

Tim Havens – Appointed Director of the Great Lakes Research Center

### Student Highlights

Fall 2021 NCL cybersecurity competition – Michigan Tech ranked 10<sup>th</sup> out of nearly 4000 teams.

### Funding Highlights

Steelman, K, Bettin, B, Ureel, L, Wallace, C, *EAGER: SAI: Illuminated Devices: A Sociotechnical Approach to Empowering Digital Citizens and Strengthening Digital Infrastructure*, NSF

Ureel, L, *Copper Country Coders Virtual Courses for U S Embassy in Bahrain*, US. Dept of State

Oommen, T, Havens, T, Kueber, Watkins, M, Meadows, G, *SCC-CIVIC-FA Track B: Helping Rural Counties to Enhance Flooding and Coastal Disaster Resilience and Adaptation*, NSF

Pastel, R, Morgan, C, *ENTERPRISE: Real Time Strategy Game for Military Commanders Phase 2 and Investigation of VR/AR/XR Technology Applied with Eye and Hand Interaction*, National Center for the Advancement of STEM Education

Marcarelli, A, Brown, L, Kane, E, Techtmann, S, *Emergent linkages between DOM composition microbial assemblages and respiration in streams*, NSF

Lei, X, *CRII: SaTC: Enabling Secure Machine Learning Queries over Encrypted Database in Cloud Computing*, NSF

Ureel, L., Brown, L., *Rich Immediate Critique of Antipatterns (RICA) in Novice Programmer Code: Broadening Adoption Supporting Student Learning and Enhancing Programming Competencies*, NSF

Onder, S., *SHF: Medium: Collaborative Research: Statically Controlled Asynchronous Lane Execution (SCALE)*, NSF

KC, D., III: *Medium: Collaborative Research: Multi-level computational approaches to protein function prediction*, NSF

Havens, T., *Operation and Maintenance: High Frequency Radar in the Straits of Mackinac Michigan - Year IV*, Great Lakes Observing System