



# Michigan Technological University Computer Science

## Highlights 2019-2020

### Now part of the newly formed College of Computing

#### Statistics

##### Faculty

15 Tenure-track/Tenured  
4 Lecturer Track

##### Students

Computer Science	BS	433
	MS	26
	PhD	28
Software Engineering	BS	86
Cybersecurity (new Fall 2019)	MS	4

#### New Degree Programs

BS Cybersecurity  
MS Cybersecurity  
BS Mathematics and Computer Science

#### New Faculty



##### Yakov Nekrich

Associate Professor  
PhD University of Bonn

##### Areas of Expertise:

- String Algorithms
- Compressed Data Structures
- Computational Geometry

#### Recognitions

2020 NCWIT Extension Services Transformation (NEXT) Award Honorable Mention for significant progress in recruiting and retaining women.

An ITiCSE Working Group report co-authored by Dr. Linda Ott was named a finalist for Top Working Group report in the conference's first 25 years.

Successful ABET accreditation visit for CS and SE BS degree programs

#### Funding Highlights

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

Vertanen, K. D., Kuhl, S. A. *CHS: Small: Rich Surface Interaction for Augmented Environments*, NSF

Vertanen, K. D., *CHS: Small: Collaborative Research: Improving Mobile Device Input for Users who are Blind or Low Vision*, NSF

Chen, B., *SaTC: CORE: Small: Collaborative: Hardware-Assisted Plausibly Deniable System for Mobile Devices*, NSF

Chen, B., *EAGER: Enabling Secure Data Recovery for Mobile Devices against Malicious Attacks*, NSF

Cai, Y., Chen, B., Van Wagner, T. A. GenCyber Teacher Camp at Michigan Tech, NSA

Havens, T., *Machine Learning for Human-Based Visual Detection Metrics*, Signature Research Inc.

Havens, T., *Duty Cycle Aggregation, Warranty Mitigation, and Fleet Prognostics using Customer Usage Data*, Ford Motor Company

Watkins, D. W. Wallace, C. R., Handler, R. M., Schelly, C. L., *RAPID: COVID-19 Consumption and Multi-dimensional Analysis of Risk (C-CAR)*, NSF

Scarlett, S. F., Pastel, R. L., Trepal, D. J., Lafreniere, D. J., *Digital Accessibility Upgrades for Archival Records in the Keweenaw Time Traveler*, US Dept of the Interior

#### Student Highlights

Dylan Gaines, National Science Foundation Graduate Research Fellowship Award

The MTU RedTeam ranked 13th out of 162 teams in a 24-hour Cybar OSINT Capture The Flag (CTF) cybersecurity competition.