<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Research Interests</th>
<th>Website</th>
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</thead>
</table>
| Paul Goetsch         | Assistant Professor, Biological Sciences                              | • Developmental Biology  
• Transcriptional Biology  
• Cancer Biology                                                                                                                                         | https://www.mtu.edu/biological/people-groups/faculty-staff/faculty/goetsch/                        |
|                       |                                                                       | pdgoetsc@mtu.edu  
906-487-1790                                                                                                                                                    |                                                                                                   |
| Cory McDonald         | Assistant Professor, Civil & Environmental Engineering               | • Limnology  
• Aquatic-terrestrial connectivity and landscape-scale drivers of water quality  
• Water quality modeling  
• Carbon cycling and ecosystem metabolism  
• Nutrient biogeochemistry                                                                                                                                  | https://www.mtu.edu/cee/people/faculty-staff/faculty/mcdonald/                                      |
|                       |                                                                       | cpmdona@mtu.edu  
906-487-2898                                                                                                                                                    |                                                                                                   |
| Stephen Morse         | Assistant Professor, Biological Sciences                              | • Window Glass Strength Design  
• Wind loads on Structures  
• Finite Element Modeling of Brittle Materials  
• Large Scale Data Processing and Data Mining                                                                                                                  | https://www.mtu.edu/cee/people/faculty-staff/faculty/morse-s/                                      |
|                       | Assistant Professor, Mechanical Engineering-Engineering Mechanics    |                                                                                                                                                                                                                  |                                                                                                   |
|                       |                                                                       | smmorse@mtu.edu  
906-487-3241                                                                                                                                                    |                                                                                                   |
| Guy Hembroff          | Associate Professor, School of Technology                             | • Cybersecurity  
• Biometric development  
• Health care information systems security  
• Human computer interaction  
• Intelligent medical devices                                                                                                                             | https://www.mtu.edu/technology/about/faculty/hembroff/                                              |
|                       | Director, Medical Informatics Graduate Program                        |                                                                                                                                                                                                                  |                                                                                                   |
|                       | Affiliated Associate Professor, Data Science                           |                                                                                                                                                                                                                  |                                                                                                   |
|                       |                                                                       | hembroff@mtu.edu  
906-487-3248                                                                                                                                                    |                                                                                                   |
Lynn Mazzoleni  
Assistant Professor, Civil & Environmental Engineering  
https://www.mtu.edu/chemistry/people-groups/faculty-staff/faculty/mazzoleni/  
Research Interests  
- Understanding the identities, occurrence, and transformation of aerosol organic compounds  
- Identifying organic aerosol constituents from a variety of atmospheric environments  
- Exploration of new LC column chemistries with ultrahigh pressure pumps for fast and thorough separations  
- Aqueous reaction pathways  

Marina Tanasova  
Assistant Professor, Chemistry  
https://www.mtu.edu/chemistry/people-groups/faculty-staff/faculty/tanasova/  
Research Interests  
- Synthesis of molecular probes for evaluating substrate selection by carbohydrate transporters  
- Development of platforms for tumor imaging and drug delivery  
- Design and synthesis of bioreductively-activated DNA repair inhibitors  

Pat Heiden  
Professor, Chemistry  
https://www.mtu.edu/chemistry/people-groups/faculty-staff/faculty/heiden/  
Research Interests  
- Synthesizing, processing, and characterizing polymers and composites or nanoparticles  
- Stimulus-response nanoparticles for drug delivery  
- Electrospinning of nanofibers for tissue scaffolds  
- Structured nanoparticles for low-leaching wood preservation  
- Biocomposites and biofibers  
- Studies of controlled nanoscale interfaces of rice-hull reinforced composites  
- Engineered wood- or biopolymer-reinforced composites having improved processing, longevity, moisture resistance, and mechanical properties  

Zhiyang Shan  
Assistant Professor, Kinesiology and Integrated Physiology  
https://www.mtu.edu/kip/people/faculty/shan/  
Research Interests  
- Mechanism of Neurogenic Hypertension  
- Brain Renin Angiotensin System and Hypertension  
- Neuroinflammation and Hypertension  
- Neuronal Mechanism of Metabolic Syndrome
### Amitabh Narain

**Professor, Mechanical Engineering-Engineering Mechanics**  
[https://www.mtu.edu/mechanical/people/faculty/narain/](https://www.mtu.edu/mechanical/people/faculty/narain/)

**Research Interests**
- Fluid Mechanics (Theory, Experiments, and CFD)
- Heat Transfer (Theory, Experiments, and Computations)
- System Design

**Contact Information**
- [narain@mtu.edu](mailto:narain@mtu.edu)
- 906-487-2555

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### Issei Nakamura

**Assistant Professor, Physics**  
[https://www.mtu.edu/physics/department/faculty/nakamura/](https://www.mtu.edu/physics/department/faculty/nakamura/)

**Research Interests**
- Self-assembly of macromolecules
- Ion solvation in liquids
- Dielectric response of molecules under external electrostatic fields
- Electrochemistry related to energy storage
- Computer simulations for macromolecular systems
- Radiation biology
- Biological physics

**Contact Information**
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- 906-487-2019

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### Carsten Kuelheim

**Associate Professor, School of Forest Resources and Environmental Sciences**  
[https://www.mtu.edu/cee/people/faculty-staff/faculty/swartz/](https://www.mtu.edu/cee/people/faculty-staff/faculty/swartz/)

**Research Interests**
- Genetic basis of trait variation
- Plant adaptation to local environment
- Plant secondary metabolism
- Chemical ecology including plant–herbivore interactions
- Functional genomics of plant defenses

**Contact Information**
- [ckulheim@mtu.edu](mailto:ckulheim@mtu.edu)
- 906-487-1615

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### Kristin Brzeski

**Assistant Professor, School of Forest Resources and Environmental Sciences**  
[https://www.mtu.edu/forest/about/faculty-staff/faculty/brzeski/](https://www.mtu.edu/forest/about/faculty-staff/faculty/brzeski/)

**Research Interests**
- Conservation genetics
- Canid genomics
- Noninvasive methods in wildlife management
- Wildlife immuno- & epi- genetics
- Applied conservation in Central Africa

**Contact Information**
- [kbrzeski@mtu.edu](mailto:kbrzeski@mtu.edu)
- 906-487-1093
<table>
<thead>
<tr>
<th>Washington DC Trip Attendees</th>
<th>May 20-22, 2019</th>
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<tbody>
<tr>
<td><strong>Paniz Hazaveh</strong></td>
<td>Lecturer, School of Technology</td>
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<td>906-487-1115</td>
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<tr>
<td><strong>Brent Burns</strong></td>
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<td>906-487-3674</td>
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