

Spring Commencement May 5, 2018

#### Welcome



#### Congratulations!

What an amazing day to be a Husky.

We are proud to share in your celebration with family, friends, faculty, and staff. You've left an indelible mark on Michigan Technological University, the Keweenaw, and beyond. We know you'll continue to impact the world every day for years to come.

Today we recognize your contributions to a tradition that began more than 130 years ago. While the education you received here in Houghton vastly differs from that of the mining students of the late 1880s, you do share the character and drive of the handful of students at that first commencement.

And you did it all with intelligence, humility, humor, and tenacity. In competitions, conferences, research, and recreation, you brought passion and excellence to everything you did. Be proud that you have improved the lives of countless people and are well equipped to serve as you begin your careers. We know the future is in good hands, because you'll be creating it.

We wish you the best of luck and ask that as alumni you stay connected. We want to hear about all the great things you do.

Congratulations, and Go Huskies!

Dr. Glenn D. Mroz '74 '77 President

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### Spring Commencement Ceremony–May 5, 2018

Prelude Music	Superior Wind Symphony
Processional	"Pomp and Circumstance No. 1" by Edward Elgar performed by Superior Wind Symphony University Marshal and Mace Bearer— Mari Buche, Associate Professor
National Anthem	"The Star Spangled Banner" by Francis Scott Key performed by Senior Vocalists
Welcome	Glenn D. Mroz, President, Michigan Technological University
Student Address	Jaylyn Williams-Boone, Graduating Senior
Commencement Address	US Senator Gary C. Peters
Presentation of Awards	Honorary Doctorate, Sen. Gary C. Peters
Presentation of Degrees	Doctor of Philosophy Degrees Master's Degrees ROTC: Degrees and Commissioning Bachelor's Degrees
Alumni Welcome	Brenda Ryan '76, Ryan Industries, Inc. Michigan Tech Board of Trustees
Final Remarks	Glenn D. Mroz
Recessional	Select Arrangements

Please stand for the Processional and National Anthem. At the conclusion of this ceremony, please remain in your seats until all of the graduates have recessed.

> Senior Vocalists: Shae Thomson, Kelli Dekutoski, Phillip Wyman, Luke Kearby, Matt DeGroot, Michael Ryan

#### *Guest Speaker* Honorary Doctorate of Philosophy

#### Gary C. Peters United States Senator

Born in Pontiac, Senator Peters has lived his entire life in Oakland County, Michigan. His father was a public school teacher and his mother was a nurse's aide at a local nursing home.

A product of Michigan schools, Senator Peters earned a bachelor's degree in political science from Alma College. After college, he worked full-time and, while raising a family, went on to earn his MBA from Detroit Mercy, law degree from Wayne State University, and Master of Arts in Philosophy from Michigan State University.

At the age of 34, he volunteered for the US Navy Reserve, rising to the rank of Lieutenant Commander. Senator Peters was elected to the US House of Representatives in 2008 and served three terms representing the people of Southeast Michigan.

He is currently serving his first term in the US Senate, elected in 2014. Senator Peters serves on the Senate Armed Services Committee; the Homeland Security and Government Affairs Committee; the Committee on Commerce, Science and Transportation; and the Joint Economic Committee.



Gary C. Peters

An avid motorcyclist, Peters meets with constituents and small businesses on his annual motorcycle tour. Last summer, he rode 1,800 miles across the state, from the Lower Peninsula to the UP.

He and his wife, Colleen, have three children, Gary Jr., Madeleine, and Alana.

### Student Speaker



Jaylyn Williams-Boone

#### Jaylyn Williams-Boone

For Jaylyn Williams-Boone, his Michigan Tech experience was a series of calculated risks and exceeding expectations. Jaylyn's drive was evident to former Michigan Tech football coach Tom Kearly who told him at their first meeting, "You look like you have something to play for."

And indeed he did. For much of his high school career, football was an afterthought, as Williams-Boone was a highly recruited wrestler out of Flint's Carman-Ainsworth High School. As a high school senior, he was challenged by a coach who told him he wasn't fit to play college football. From that day forward he dedicated himself to doing just that.

A stellar senior season led to a Michigan Tech scholarship, which he says was already against the odds. "Where I come from, death and violence aren't foreign concepts. Statistically, coming from the north side of Flint, Michigan, the odds of being incarcerated or killed are greater than going to college." As a red-shirt freshman, he received his team's Freshman of the Year honor and Great Lakes Intercollegiate Athletic Conference All Academic Excellence Award in his debut season. Driven by adversity, he has twice fought back from injury and is graduating with a business degree after four years. With a year of eligibility left, he looks to achieve his goal of being a four-year starter this fall, while earning a master's in accounting from Michigan Tech's School of Business and Economics.

Priding himself on truly being a student athlete, Williams-Boone has appeared on the Dean's List six out of his eight semesters at Michigan Tech, and was the SBE's Outstanding Man in Business in 2017. He was also involved on campus through organizations such as APMP, Black Students Association, and the Undergraduate Student Government.

When asked about his view on life, Jaylyn says it is a journey rather than a destination and as a man of intense faith, he is humbled by his successes and cites his mother as a source of inspiration. "She's my everything," he says. "She has sacrificed so much to give me the life I have today. Everything I've accomplished I owe to her."

When his football and college days are over, Williams-Boone won't turn his back on his hometown. "No matter how far I go, I'll never forget where I'm from. My desire is to give hope and inspire others to chase their dreams beyond the confines of the life they are currently exposed to."

### Achievement. Success. Congratulations!

#### You're a Michigan Tech Graduate!

Today you achieved one of life's milestones. Many people have invested in your success—your family and friends, faculty and staff, and Michigan Tech alumni and friends. We are all so proud of your accomplishments.

Today you are starting a new adventure and we are here to help you stay connected. MyMichiganTech will become your alumni portal, a place to update your information and build your Husky network with the alumni directory.

- Connect with alumni online through the Alumni and Friends Facebook or LinkedIn pages, with regional chapters, or at your company.
- Keep using your Michigan Tech email and take advantage of continued support from Career Services.
- Hear about campus and alumni news through the *Michigan Tech Magazine, Research Magazine,* and our alumni e-newsletter.
- Continue your broomball career! Bring your team and compete in the annual Alumni-Student Broomball Invitational during Winter Carnival.

In the coming months, we will be in touch with you to learn more about your time after graduating from Michigan Tech and to invite you to alumni events in your area.

Michigan Tech has a proud tradition of "Huskies helping Huskies." As a



Alumni House

new graduate, we may contact you and ask you to share your Michigan Tech experience with current or incoming students. We hope you will consider being a regional volunteer as well as opportunities to share your financial resources to support future Huskies.

When you return to campus for a visit, please stop by the Alumni House. We would like to say hello, catch up with you, and provide you with a free parking pass and a discounted SDC day pass.

And, remember, once a Husky, always a Husky. We warmly welcome you to the Michigan Tech Alumni and Friends family!

-The Alumni Engagement Team

### **Graduate School**

Dr. Pushpalatha Murthy, Dean Associate Provost

### Doctor of Philosophy

Advisors' names in italics

School of Forest Resources and Environmental Science Dr. Terry L. Sharik, Dean

COMPUTATIONAL SCIENCE AND

ENGINEERING Chathura J. Gunasekara Dr. Hairong Wei

FOREST SCIENCE Colin C. Phifer Dr. David J. Flaspohler Dr. Christopher R. Webster

#### College of Sciences and Arts Dr. Bruce E. Seely, Dean

APPLIED COGNITIVE SCIENCE AND HUMAN FACTORS S. Maryam Fakhr Hosseini & Dr. Myounghoon Jeon Steven G. Landry & Dr. Myounghoon Jeon Jason Sterkenburg Dr. Myounghoon Jeon

BIOCHEMISTRY AND MOLECULAR BIOLOGY Jeffrey David Kiiskila © Dr. Rupali Datta

BIOLOGICAL SCIENCES Ramkumar Mohan © *Dr. Xiaoqing Tang* 

CHEMISTRY Gemechis Dereje Degaga Dr. Loredana Valenzano Shanshan Hou Dr. Lanrong Bi Ashok Khanal \* Dr. Shiyue Fang Xin Yan Dr. Lanrong Bi

COMPUTER SCIENCE Gorkem Asilioglu ⊚ Dr. Soner Onder Bryan Michael Franklin Dr. Laura E. Brown Zhaoxiang Jin ❖ Dr. Soner Onder Ruimin Zhang Dr. Scott A. Kuhl

ENVIRONMENTAL AND ENERGY POLICY Jennifer L. Dunn © Dr. Kathleen E. Halvorsen

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#### College of Engineering Dr. Wayne D. Pennington, Dean

BIOMEDICAL ENGINEERING Ameya Ravindra Narkar \* Dr. Bruce P. Lee

CHEMICAL ENGINEERING Richard James Machiela © Dr. Timothy C. Eisele

CIVIL ENGINEERING Amaneh Eslami Kenarsari @ Dr. Stanley J. Vitton Shuaicheng Guo \* Dr. Qingli Dai Dr. Zhanping You Sangpil Ko Dr. Pasi T. Lautala

Computer Engineering Yuchen Zhou Dr. Shiyan Hu

ELECTRICAL ENGINEERING Hanieh Deilamsalehy Dr. Timothy C. Havens Arash Hosseinzadeh @ Dr. Christopher T. Middlebrook Mehdi Jafari 🛛 Dr. Lucia Gauchia Caoyang Jiang Dr. Saeid V. Nooshabadi Paniz Khanmohammadi Hazaveh Dr. Paul L. Bergstrom Aref Majdara 🛛 Dr. Saeid V. Nooshabadi **Ronald Craig Matthews** Dr. Wayne W. Weaver Husam Ibrahem Sweidan Dr. Timothy C. Havens Jingyuan Wang Dr. Sumit Paudyal

**ENGINEERING-ENVIRONMENTAL** 

ENGINEERING Mohammad Alizadeh Fard © Dr. Brian D. Barkdoll Tanvir Rashid Khan Dr. Judith A. Perlinger Zhimin Song Dr. Paul V. Doskey

GEOPHYSICS Marine Foucher Dr. Aleksey V. Smirnov

MATERIALS SCIENCE AND ENGINEERING Liang Chang � Dr. Yun Hang Hu

MECHANICAL ENGINEERING-ENGINEERING MECHANICS Shadi Ahmadi Darani 🛠 Dr. Ossama O. Abdelkhalik Kishan Bellur 🛠 Dr. Jeffrey Allen Dr. Chang Kyoung Choi Yashwanth Donepudi Dr. Ezra Bar Ziv Dr. Jordan L. Klinger Patcharapol Gorgitrattanagul Dr. Amitabh Narain David M. Labyak Dr. Gopal Jayaraman John Ryan Murdock Dr. Song-Lin Yang James M. Sevik Jr. Dr. Scott A. Miers Adam Kirkland Smith Dr. Nina Mahmoudian Wentao Yao 🛠 Dr. Reza Shahbazian Yassar Saeedeh Ziaeefard © \* Dr. Nina Mahmoudian

*Master's Degrees* School of Business and Economics Dr. Dean L. Johnson, Dean

#### MASTER OF BUSINESS

ADMINISTRATION Jacob David Brown Aoi Buto Jordan Bruce Chartier Ellaina E. Cook Kelli Grace Guy Emily Jo Harrison Garrett Patrick Mitchell Nicholas Jeffrey Steffey Yuheng Wu

Master of Science Accounting Nolan Stuart Hill

DATA SCIENCE Revanth Chappidi Akshay Dilip Gaonkar

#### School of Forest Resources and Environmental Science

MASTER OF FORESTRY Jake Robert Halabut Steven P. Mantani Brian Jeffrey Peacock Joel Benjamin Taylor

MASTER OF GEOGRAPHIC INFORMATION SCIENCE Erica Jean Anderson

Master of Science Forest Ecology and Management Jhon del Aguila Pasquel FORESTRY Justin Frank James Martinchek Luxi Wang

#### School of Technology Dr. James O. Frendewey, Dean

MASTER OF SCIENCE INTEGRATED GEOSPATIAL TECHNOLOGY Ausama Mohammed Yaseen Al Shammari Sanidhya Tyagi

MEDICAL INFORMATICS Chin Yuan Chen Nathan M. Gauss Samantha Rae Gurnoe Angelica Anne Hebert

#### **College of Sciences and Arts**

MASTER OF SCIENCE APPLIED COGNITIVE SCIENCE AND HUMAN FACTORS Brittany Leanne Nelson Kaitlyn Marie Roose David Joseph Schreifels Jason Sterkenburg

APPLIED PHYSICS Jesse Charles Anderson Sarita Karki

APPLIED SCIENCE EDUCATION Dean Youngren

BIOLOGICAL SCIENCES Jessica Elise Behnke Majid Ghafarian Tasbihi Sani Ian Mark Greenlund ⊚ Taija Marie Hahka Andrew A. Kennedy Carmen Michelle Leguizamon Shuang Liang

CHEMISTRY Marian Theresa Ampadu

COMPUTER SCIENCE Jaclyn Anne Barnes Mohammad Hossein Beheshti Mugdha Degaonkar Anthony C. Dupont Zhaoxiang Jin Deval Dilip Keralia Praneeth Varma Rudraraju Kuber Dutt Sharma Aseem Upadhyay Anjia Wang Jiaxing Zou

DATA SCIENCE Supriya Nitin Bachal Bharath Inti Ibrahim Odumas Odufowora Mitul Shah

KINESIOLOGY Brenna Lynn Heise Mackenzie Marie Perttu

MATHEMATICAL SCIENCES Casey Michael Bindas Samuel David Judge Chao Liang

RHETORIC, THEORY, AND CULTURE Olayemi Benjamin Awotayo Linford Odartey Lamptey Megan Pietruszewski

#### **College of Engineering**

MASTER OF ENGINEERING Anish Agarwal Sumit Das Sabari Manohar Palaniappan Rutvi Pravinkumar Thanki

#### MASTER OF SCIENCE

BIOMEDICAL ENGINEERING Noah William Doyle Brigitta R. Hammond Salil Sidharthan Karipott Jonathan D. Kelley Megan Elizabeth Petrich Stephanie Okyere Sarpong Govindan Suresh

CHEMICAL ENGINEERING Pranathi Gangavarapu Richard Charles Louys III Pratyusha Paidikondala Joel Edmund Reckard Lakshmanan Subramanian Abhishek Rajendra Vispute Lifan Zhou

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GEOLOGICAL ENGINEERING Lindsay R. Ellingson

GEOLOGY Christie Eileen Torres Rosa Levy M. Rhody №

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Sushrut Vasant Joshi Pankaj Nandlal Kalan Yuvraj Sambhaji Kamandar Puja Kishor Karde Vasudev Surendra Karve Siddharth Shripad Kshirsagar Shrinivas Shashikant Kulkarni Ayush Lal 🖵 William S. Larsen Xiaohe Li Dhaval Bhikhubhai Lodaya Nithesh Maddi Reddy Diptesh Deepak Malatpure Satya Naren Karthik Mandali Amit Mohan Mensi Sanil Mhatre Shashank Shrikant Moghe Sambhav Rajendra Mutha 🖵 Apurv Naman Sainath Naram 🖵 Siddharth Navar Romil Pahwa 🗆 Rohit Ishvar Panchal 🖵 Swapnil Awdhesh Pandey Sarvesh Ramesh Paranjape Nikhil Reddy Pasula Harsh Balkrushna Patel Tejas Dasharathbhai Patel Rohan Vijay Patil Sagar Sunil Patil Adam D. Patrick × Abhijith Geo Philip Nawaz Shareef Pinjari Sathya Prasad Potham \* Derryl James Poynor Nitin Krishna Pradhan **Apoorv Prem** Gautham Surya Ramanathan Lakshmi Datta Ramaraju Sandesh Rao 🛠 Akshat Abhay Raut 🖵 Vineet Felix Rodrigues Kovid Sachdeva Pranav Rajendra Salunke Deepak Samavedam Mahesh Sarode Steven Anthony Senczyszyn Hardik Mahesh Shah

### Graduate/Undergraduate Degrees

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MINING ENGINEERING Fanteri Aji Dharma Suparno

### Bachelor's Degrees

## College of Engineering

BACHELOR OF SCIENCE

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Engineering **BIOMEDICAL ENGINEERING** Dakota J. Anderson 🕂 Jennie M. Baker \*\*# Peter B. Beach \*\***+**≎◊ Elizabeth G. Bloch 🕂 Rebecca L. Bostwick + Bruce Brunson Jr. Hannah Cunningham \*\*\* Julie A. DeBus \* Derrick A. Diver Holly E. Eyrich \*\* Adam D. Francis Meghan E. Friske Shallen A. Gurtler 🖶 Christopher A. Haferman \* Jennifer N. Hannon Morgan M. Herzog \*\* Kenneth R. Hubbard \*+

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Gabriel A. Griffin \*\* Dillon C. Gronseth \*\*\* Zachary C. Hall Sulgee Haynesworth Magdalina L. Hildebrandt Anna M. Hohnstadt \*\*\* Jason C. Kaster Lauren M. Keenan \*\*+ Katlyn S. Kiekhaefer \*\* Scott D. Kitzmiller \*\*\*+ Emilia R. Kuemin Joseph P. Kulkarni Jacquelyn C. Lahnanen **Richard F. Linck** Taylor R. Lindemann 🖶 Demitrius M. Mallos \*\*+ Eric M. McCann Meghan R. McDonald + Christopher W. Moore Nicholas J. Moore 🕂 Matthew O. Moreman \* Muhammad Luqman Nulhakim Evan J. Murphy 🖶 Anna M. Nelson \*\*\* Jonathan D. Nelson \*\*\* Neal C. Nordstrom Ryan N. Oshe \*\* Jesse J. Pagel Kyle D. Palmer Natalia Parra Alvarez Alexander S. Patterson \*\* Abigail K. Payne Darcy A. Perry Vincent G. Perz \*\*\* Joseph T. Peterson \*\*\* Rebecca M. Phipps \*\* Meghan C. Pierce \*\* Sarah E. Pudas 🖶 Steven M. Raboin Marco A. Ramon Kane M. Rasner 🕂 Joshua P. Rennell \*\*\* Dustin E. Rens Brendan T. Saum Luke D. Schulz Matthew K. Seablom + Katharine A. Smeberg 🖶 Melissa A. Spaulding \*\*

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### Undergraduate Degrees

Alexa R. Thompson Max A. Tollefson Ryan M. Usimaki Kyle M. Wellman Jason M. Wesley Weihuang Xie Christopher N. Yax **?** Nicholas M. Zayan Zijian Zhu Emily J. Zipple

*Department of Engineering Fundamentals* Engineering Taylor M. Pitlik

Department of Geological and Mining Engineering and Sciences APPLIED GEOPHYSICS Jill A. Guthrie Kaitlin J. Marsh

GEOLOGICAL ENGINEERING Kirsten E. Deprekel Andrew G. Dubay Jordan C. Erickson # Zachary T. Fleming Ryan M. Klida Andrew J. Moore \*\*\* Denada Planaj Brendan P. Ruppen Benjamin J. Sovinski \* Megan R. Sprague Kyle T. Walker Luke M. Weidner \*\*\* Zachary S. Westphal \*

GEOLOGY Sean D. Brick Cory C. Burkwald Hannah M. Koskiniemi # Jessalyn N. Taylor

Department of Materials Science and Engineering MATERIALS SCIENCE AND ENGINEERING Alex R. Ball 🕈 Philip J. Bednarczyk Kristen E. Bull \*\*\* Aaron M. Cook 🖶 Joshua P. Dorn \*\*\* Mark D. Ilenich 🕂 Danielle E. Jencks \*\* Morgan M. Jons Tyler J. Kiszelik 🖶 Tristan J. Kolb Emily G. Marciniak Lewis G. Marshall \*\* Karry A. Modolo \*\* Christopher R. Pflug II Jacob A. Prochnow \* Kassia J. Prystalski Bailey H. Rudolph \* Ryan W. Spaulding Philip D. Staublin \*\*\*+ Nicholas C. Stuve Thomas H. Weston Carson F. Williams \*\*♥ Yifei Wu

#### Department of Mechanical Engineering-Engineering Mechanics MECHANICAL ENGINEERING Nathan L. Ackerman \*\*# Andrew M. Aerts \*\*\* Jayson D. Allison Eli A. Anderson 🖶 Adam J. Augustyniak \*\*\*⊕◊ James R. Baker Joshua T. Balcom Ethan J. Beavers Andrew J. Berg Conor T. Berndt William R. Bland Ian T. Boettner Paul T. Bosko Cade J. Bowman Samuel L. Brayman

Devin J. Brienen \*\* Mark E. Brouwer+ Ethan P. Brown 🖶 Bruce Brunson Jr. Kayla J. Buczkowski \* Ryan W. Buske \*\*\* Harrison L. Cannon 🖶 Mark D. Casamer Elaine L. Cook 🖶 Denzil Cotera Berndt 🕂 Claire M. Couture Stuart A. Crewdson Hannah M. Daavettila 🕂 Mark R. Daavettila 🕂 Jacob J. Damiani \*\* Cy A. DeLeeuw O Daniel J. DeVries \*\*+ Reid H. Deckebach Jocelyne R. Denhof Shveta V. Dhamankar \*\* Daniel J. Domitrovich 🖶 Cameron R. Dulong \*\* Daniel S. Freed Julian J. Gabriel 🗘 🛇 Kendra M. Gburek Nathan J. Goering \*\*\* Austin J. Gongos Cody J. Goodreau Alexander J. Gorcyca Christopher A. Haferman \* Chet J. Halonen \*\*+ Drew J. Hanover \*\* Alex M. Hanson Matthew J. Hargas Keegan G. Harrington \*\* Alexander I. Hartmanis Andrew J. Hartz Jr. Charles P. Hatch Justin M. Heil Dustin S. Hitchings Preston C. Hogue Alec M. Holm \*\* Ryan D. Hopper \*\* Austin C. Hower Logan E. Hunter Eric D. Hupf Matthew D. Ilenich 🖶 Kyle W. Janowicz

Lillian A. Johnson Carl H. Jolma \* Carl E. Kangas 🖶 Christiana I. Kaub Luke W. Kearby 🖶 Daniel J. Killick Ian T. Kramer Matthew T. Krawczyk Kalvin W. Krompetz Jacob A. LaPonse Spencer B. Lacy Christopher A. Lake 🔁 Ryan M. Larson \* Jesse L. Lassila \*\*\* Keith R. Lemley 🖶 Jacob N. Len Yvonne M. Lewsley Drake M. Lindberg Matthew P. Ludkey Erik T. Lund 🖶 Benjamin J. Maat Seth P. Mares \* Michael M. Mashevsky \*\* Robert S. Massar \*\*\* Curtis J. McKenney 🛞 Erik P. Meeks Emily R. Meuers Jacqueline K. Mielke George M. Mietelka Theodore F. Mikrut III Nils A. Miron \*\* Nicholas J. Monette 🕂 Jose M. Montano Cody D. Mouton Nalen S. Nadarajah \* Colin M. Neuman 🕂 Lorne S. Newhouse \*\* Brennan B. O'Brien Neil B. Olson \*\*\* Brett D. Opel \*\*\* Zachary G. Papciak Jacob W. Pardy Zakarie R. Parker Jonathon P. Parzuchowski Cooper J. Pedersen \*\*\* Scott A. Pederson Steven M. Peltier Jr. Carl A. Pietila 🖶

### Undergraduate Degrees

Alexis C. Pinson Cameron J. Potter Jordan D. Powers Jacob A. Prins \*\* Jacob A. Prochnow \* Jared A. Richards \*\*\* Cody J. Rietveld \* Davis T. Russcher Joshua R. Rzeppa Dylan J. Scholten 🖶 Zachary R. Scholzen Christopher S. Schultz 🖶 Amelia M. Schweikart Joshua L. Sell Lukas C. Senczyszyn Shane M. Severn Derek L. Severson 🕂 Marcus D. Shamberg Sarah E. Smaby \*+ Joseph F. Smies \*\* Joshua F. Smies \*\* Julia C. Smit \* Jeffrey B. Staten \*\*+ Dylan J. Steman \*\*\* Riley L. Stroven \*\*♦ Mary C. Sullivan \*+ Tyler S. Swanson Conner T. Swindell Kevin J. Tillman Ethan H. To Gabriel T. Toczynski Jack T. Torborg Amanda L. Travis \*\* Jackson D. Troin Daanish S. Tyrewala \*\*\* Jason L. VanDoornik \* Emily A. Vigil \*\* McKenna A. Wagner Alex M. Weber 🕂 Kyle W. Wehmanen \*\*\*+ Kyle M. Wellman Cory K. Williams John M. Williams Jr Lily A. Williams 🖶 Theodore J. Wollner Yifei Wu Christopher G. Young Philip J. Zambon

# School of Business and Economics

BACHELOR OF SCIENCE

ACCOUNTING Bradley S. Boehler Hanna I. Christensen Eric E. Coon & Leslie J. Ditlow \* Erin E. Gast \* Alina M. Harmala & Brett M. Hauswirth & Kayleigh A. Lake \*\*\* Jessica L. Muonio \* Gina M. Roose \*\*\* Alexander J. Smith & Ryan E. Wilson

ECONOMICS Graeme J. Blakely

ENGINEERING MANAGEMENT Kyle M. Huyser Haley I. Iwaniec Kai M. Jenstrom ♣ Austin J. Riipi Garrett T. Ross Seth M. Rottschafer Alexander J. Smith Tanner J. Uren Paige N. Wojcik-Wilson

FINANCE Evan C. Anderson Timothy A. Brandt ® Tao Dong Ian P. Fischer Anthony P. Fisher Alexander M. Gietek & Cody C. Goldsworthy Devin D. Kero \*\* Kaiyu Lin Peter J. Modrak David M. Renaldi \*\* Andrew W. Sedlar Jaylyn D. Williams-Boone \* MANAGEMENT Celicia J. Bledsoe Olivia S. Burek \* Robert J. Fergan \* Dillon S. Gordon \* Roman Gorshenin \* Tyler W. Heinonen \* Samuel J. Kitts \* Shelbie L. Koenitzer \* Dylan J. Larson Brant M. Rose Chelsea M. Siebarth Matthew J. VanDenBerg

MANAGEMENT INFORMATION SYSTEMS Xing Chen Michael D. Johnson Joel D. L'Esperance Amber M. Stanaway

MARKETING Tanner C. Flatt \*' Mitchell M. Ryan Marisa R. Taylor

#### School of Forest Resources and Environmental Science BACHELOR OF SCIENCE

APPLIED ECOLOGY AND ENVIRONMENTAL SCIENCES Neva R. Bentley \* Lauren K. Docherty Kira J. Ferguson \*\*♣ Zoe N. Horns Brett R. Houle ♣ Kathleen L. Patronik ❀ Keeli N. Winquist ♣

CONSTRUCTION MANAGEMENT Chad C. Brown

> ELECTRICAL ENGINEERING TECHNOLOGY Jonathan R. Burke Jr. Austin J. Etzel Dustin M. Long \*\* Joseph W. Mayrose \*\* Devon J. Swanton Hassan A. Zainuddin

MECHANICAL ENGINEERING TECHNOLOGY Saif A. Alkuait Ian R. Baldwin Jeff M. Belter Austin C. Crider Devon C. Eisenga Christopher J. Foreman Cody E. Hayes Justin S. Keyes Matthew D. Kiekintveld Alexander G. Knight Matthew J. Kroepfl \* Thomas J. Lyle II Erin L. Murdoch \* Bradley M. Norman Zachary R. Podkul Bryce E. Richard \*\*\* Sawyer C. Russell Theodor G. Smith 🖶 Jacob R. Vuillemot Kayla M. Wilson \* Phillip J. Wyman \*\*↔

SURVEYING ENGINEERING Evonne M. Allard Jacob D. Fabian \*\* Nicholas A. Kostick \*\*#O Matthew C. Kunkel \*\*\* Jennifer A. Morehouse #

FORESTRY Alex J. Carlson Michael Choiniere \* Reginald N. Horton Eric O. Isaacs # Joseph Lazzari Cole J. Michaud Joyanne K. Mittig \* Kevin A. Suozzi P Eric J. Wilson & Jack Youngblood \*\*O

NATURAL RESOURCES MANAGEMENT Laura E. Jacobs \*® Coleman M. Kaiser

WILDLIFE ECOLOGY AND

MANAGEMENT Cheyanne M. Boucher \*\* Zachary L. Evans Tony C. Lammers \* Russell W. Lipe \* Andrew S. Meyer \* Samantha F. Stokes \*

#### School of Technology

BACHELOR OF SCIENCE

COMPUTER NETWORK AND System Administration Zachary P. Aufdemberge Thomas Bialv Sarah M. Blum Joshua D. Brasseur \* April E. Brown \* Nathan H. Eickmeyer 🖶 Trevor A. Erxleben Ryan K. Henning Henry J. Kipke Michael C. Oliver \*\*✿◊ Cynthia M. Robacker Adam G. Weber \* Benjamin H. Webster Eric D. Witteveen +O Scott Xiong

#### **College of Sciences and Arts**

BACHELOR OF SCIENCE, BACHELOR OF ARTS

#### Department of Biological Sciences Biochemistry and Molecular Biology

BIOINFORMATICS Nathaniel J. Maki

Ayla L. Vaughn

BIOLOGICAL SCIENCES Taylor R. Archibald \* Adam D. Cary Cassandra K. Cecchettini \* Morgan L. Charbonneau \*♣ Lindsey F. Dolinski ♣ Leah M. Kimminau \*\* Erin E. McKenzie \*\*\* Chase H. McNamara \*\* Andrea N. Norton Amanda M. Ogryzek Catherine A. Pieprzak Elizabeth S. Scaife \*\* Jacob L. Schoenborn Jacob A. Swanson ❀

MEDICAL LABORATORY SCIENCE Melanie K. Batchelor \*\*\* Rachel J. Eikenberry Mona M. Fabian Marissa E. Kinney 4 Eleia B. Kozminski 4 Ellen S. Thomson \*4 Ashley N. Videtich \*\*4

#### Department of Chemistry

BIOCHEMISTRY AND MOLECULAR BIOLOGY Erinn M. Smith ♣ Yipeng Yin ❀

CHEMINFORMATICS Adam D. Pap CHEMISTRY Nicole V. Bliven Alexis L. Ferrier Tyler A. Leverton \*\*\* Shelby B. McGuire \*\* Diane L. McNease Cathleen A. Saraza

PHARMACEUTICAL CHEMISTRY Zachary M. Nelson Alexandra O. VanSumeren \*\*+

#### Department of Cognitive and Learning Sciences

PSYCHOLOGY Emmitt K. Forbush O Kevin J. Grathoff Halie M. Hart \*\* Elizabeth L. Kelliher \*\*\* Madeline P. Shortt Ginger L. Sleeman \*\*

#### Department of Computer

Science **COMPUTER SCIENCE** Zane R. Barker \* Kyle P. Bray \*\*\* Grant M. Buhl \* Trent A. Chamberlin Chetan Kumar Chaurasiya Stephen D. Colegrove Alexander J. David \* Benjamin J. Denys Anthony R. Fantene Sophia G. Farquhar \*\*\*+ Max S. Faust-Smith Mary L. Flood 🖶 Andrew V. Fox III John G. Giddings Jacob C. Gould \*\* & Hal M. Hattis Dane L. Jensen William W. Kent V \*\* Baron B. Lenardson Dylan Lettinga Eric J. Moore Joseph M. Pietrzyk 🖶 Evan T. Ronnei

James K. Rudlaff \*\* Joshua J. Rule Derrick L. Smith \*\* Garand A. Spikberg Catherine T. Steigerwald \*\* James N. Straw Ajay Vasu Justin D. Williams \*\*\* Darren K. Wiltse Jacob W. Woloschek Andrew R. Wolowiec Joachim V. Wright \*\*

SOFTWARE ENGINEERING Jeremy M. Barker Eamonn Daley Zachary B. DeKraker Michael A. Gryzwa 🖶 Dustin J. Haxton Charles E. Heckel 🖶 Nichole S. Mackey \*\*↔ Jacob Mager Nicholas J. Muggio \*\* Zachary G. Paris Erik A. Skogfeldt Daniel R. Stahl III\*\* Codey M. Walker Michael T. Wallace 🖶 Bryce E. Williams

#### Department of Humanities

COMMUNICATION, CULTURE, AND MEDIA Kendall Y. Belopavlovich \*\* Casey N. Nelson Nathan N. Shaiyen Connor C. Will **#** 

English Wynter S. Lindgren 🖶

SCIENTIFIC AND TECHNICAL COMMUNICATION Bachelor of Arts Jessica A. Boelcke \* Timothy H. Judge

### Undergraduate Degrees

Bachelor of Science Paul A. Bahle Micaiah J. Grossmann Johnathan L. Jaehnig # Alex S. Person

#### Department of Kinesiology and Integrative Physiology

EXERCISE SCIENCE Thomas K. Bye \*\* Stephanie L. Dietrich \*\*\* Beau P. Dupuis ♣ Alex J. Gabe Ellen J. Heinonen \*♣ John E. Los Madelyn M. Morley ♣ Kelsey T. Saladin \*\*♣ Tessa C. Sprague \*\* Kelvyn E. Van Laarhoven Derek R. Verbrigghe \*\*\* Lindsay M. Winter \*\*

SPORTS AND FITNESS MANAGEMENT Rosalie J. Anderson \* Elisa M. Jurmu \*\* Mitchell M. Ryan

#### Department of Mathematical Sciences

MATHEMATICS Stephanie M. Bedford Natalie A. Brown Meghan A. Campbell \*\*\* Nicholas Z. Catalanotto Illiya Chibirev \*\* Kelli M. Dekutoski 🕂 🔿 Valerie N. Eliasen \*\*\* De'Jah U. Hall Tehya A. Heyrman \*\*\* Erin N. Johnson \*\* Ashley S. Laux Charles A. Lewis Miles R. Martin \*\*\* Travis J. Melka Nicholas A. Olinger \*

Cameron J. Ringler \* Drake D. Slater Kyle N. Sutela \*\*

#### Department of Physics

APPLIED PHYSICS Sasha N. Berriel Paul T. Bosko Stefan L. Friesema 🖶

PHYSICS Illiya Chibirev \*\* Owen D. Cruikshank \*\* Daniel J. Johnson + Crystal A. Massoglia \*\*\*&+ Seth R. Nelson \* Jonathan A. Zamaites &+

#### Department of Social Sciences

HISTORY William K. Berner \* Savannah R. de Luca

SOCIAL SCIENCES Lauren E. Emmert \*\*\* \* Cedric L. Jones Michael L. Ryan

# Department of Visual and Performing Arts

AUDIO PRODUCATION AND TECHNOLOGY Henry W. Ashburn \*\* James L. Bennett Jacob T. Gust \* Steven A. Klier Zachery O. L'Italien \*\* Dominic C. Mosher Eric E. Smith Jr. \* Charles D. Southward

SOUND DESIGN Devin P. Deal \* Taran J. Schatz

#### Of Note

The commencement ceremony at Michigan Technological University is a symbolic celebration of graduation for the candidates. Participation in commencement does not constitute the completion of degree requirements, and this program is not an official list of graduates or honor recipients.

### Information

### **Degree Information**

#### \*Cum Laude

- \*\*Magna Cum Laude
- \*\*\*Summa Cum Laude
  - ❀ Double Major
  - + Legacy
  - Commissionee in Reserve Officer Training Corps
  - \* Candidate for Michigan Secondary Education Certificate
  - ★ Certificate in Advanced Electric Power Engineering
  - × Certificate in Automotive Systems and Controls
  - Certificate in Global Technological Leadership
  - Certificate in Electric Power Engineering
  - □ Certificate in Hybrid Electric Drive Vehicle Engineering
  - Certificate in International Sustainable Development Engineering
  - Certificate in Sustainability
  - ✤ Certificate in Sustainable Water Resources Systems
  - Dean's Award for Outstanding Scholarship
  - Outstanding Graduate Student Teaching Award
  - ◊ Pavlis Honors College
  - ✤ Veterans and Active Duty Military

### Cords

Summa Cum Laude GPA ≥ 3.90
Magna Cum Laude GPA 3.70-3.89
Cum Laude GPA 3.50–3.69
Pre-health
Veteran

#### Tassels

Black and Gold	Legacy
White	Arts, Humanities
Drab	Accounting, Business
Copper	Economics
Orange	Engineering
Brown	Fine Arts
Russet	Forestry
Golden Yellow	Science
Cream	Social Science

#### Medallion

Pavlis Honors College

#### Commencement Marshals

Dr. Mari W. Buche, Associate Professor University Marshal School of Business and Economics

1st Lt. Janna L. Clement Instructor *Aerospace Studies* 

Dr. Erika I. Hersch-Green Assistant Professor *Biological Sciences* 

Dr. Megan C. Frost Associate Professor *Biomedical Engineering* 

Dr. Heather Knewtson Assistant Professor School of Business and Economics

Dr. André R. Da Costa Professor *Chemical Engineering* 

Dr. Paul C. Charlesworth Associate Professor *Chemistry* 

Dr. Daniel M. Dowden Assistant Professor *Civil and Environmental Engineering* 

Dr. Peter D. Stacy Adjunct Assistant Professor Cognitive and Learning Sciences

Dr. Zhenlin L. Wang Professor *Computer Science* 

Dr. Roger M. Kiekhafer Associate Professor Electrical and Computer Engineering

Ms. Amy E. Monte Senior Lecturer *Engineering Fundamentals* 

Dr. Blair D. Orr Professor School of Forest Resources and Environmental Science Dr. Thomas Oommen Associate Professor Geological and Mining Engineering and Sciences

Dr. Debra D. Charlesworth Assistant Dean *Graduate School* 

Dr. Sue Collins Associate Professor *Humanities* 

Dr. Steven J. Elmer Assistant Professor Kinesiology and Integrative Physiology

Dr. Paul G. Sanders Associate Professor Materials Science and Engineering

Dr. Xiao Zhang Assistant Professor Mathematical Sciences

Dr. Nina Mahmoudian Associate Professor Mechanical Engineering-Engineering Mechanics

Capt. Paul A. Loomis Assistant Professor *Military Science* 

Dr. Jae Yong Suh Assistant Professor *Physics* 

Dr. Melissa F. Baird Assistant Professor Social Sciences

Dr. Evgueny Levin Associate Professor School of Technology

Ms. Lisa Johnson de Gordillo Assistant Professor Visual and Performing Arts

### Class of 2018 Tributes

For supporting student scholarship funds, graduates were given the opportunity to pay tribute to those who made a difference in their Michigan Tech experience. Below, in the order they were received, are tributes from the Class of 2018.

Thank you to my family, whose neverending support and encouragement helped me achieve my goals! #47 *Peter Beach* 

Mom, Rosie, and Sean: Thank you for always believing in me! I love you all so much!

Lillian Johnson

Dad, Dede, Rosie, Dane, and Brendon: Thanks for always believing in me! I love you all so much! *Lillian Johnson* 

Mom, Tay, and Grandma—Thank you for being my biggest supporters and inspirations! Love, Dani (A.G.) Danielle Jencks

Mom, Dad, Grandma, thank you for the inspiration, loving support, and believing in me since day one!

Jessalyn Taylor

Mom and Dad, thank you for all your love and support!

Lily Williams

Thanks to my parents, uncles, aunts, brothers, and sisters for your love and support! I did it! 赞! *Zhaoxiang Jin* (金兆祥)

Thank you to my beautiful wife, for always being there. Also to my parents, for all their support.

Dillon Gronseth

I'd like to thank God, my parents, grandparents, as well as the Flanders for aiding in my success. DeJah Hall

Mom and Dad, thank you for everything I have in my life. I love you! *Aref Majdara* 

BELLE! WE SURVIVED AND WE THRIVED (kinda)! Thx for being you. HAGS & ILY Madison Wilson A special thank you goes out to my parents for the endless love and support they have given me!

Kane Rasner

Thanks Mom and Dad for the never-ending love and support. I couldn't have done it without you! Matthew Hulet

I have always looked up to my brother. Thank you for being my lighthouse and guiding me here. :) Sambhav Mutha

Thank you, Mom and Dad for all the sacrifices you have made so I can succeed in life! I love you guys!! Jake Mager

Mom and Dad, thank you, I couldn't have done this without my biggest support system! Go Team Wilson! *Kayla Wilson* 

Mom, they said you couldn't raise a man in the city of Flint . . . Your son is a graduate of MTU now.

Jaylyn Williams-Boone

Pack, this degree was ruff, but at leash I had your support. Thank you mush, your little husky.

Elaine Cook

Thanks to God, Mom, Mariah, and all my great professors who saw me through the ups and downs. *Kayleigh Lake* 

Thanks Mum and Dad for being there. It's nice to be important, but it's more important to be nice. *Lewis G Marshall* 

Mom and Dad—Thank you for all of your love and support. I couldn't have done it without you!! *Garrett Ross* 

Thank you, Monster Energy drink! I couldn't have done it without you! *Alexa Thompson* 

### Class of 2018 Tributes

To our family: Thanks for all your love and support! We couldn't have done it without you!

Ryan and Melissa Spaulding

Thank you to my family for all your love and support. I couldn't have done this without you.

Michael Gryzwa

Thanks for the support and encouragement through college, Mom and Dad. I'm still not done learning :)

Thomas Bye

Mom and Dad, you always believed in me! You inspire me everyday. Thanks! *Casey Wood* 

Thanks for always believing in me and being the best dad to ever exist. I love you. *Amanda Ogryzek* 

Thank you Mom and Dad for all your support going through college! *Eric Johnson* 

Eman, Mom, and Dad, I could not have crossed this stage without your love and support, thank you.

Kendall Belopavlovich

Thank you, Mom and Dad for everything that you have done to get me where I am! Vasundhara Shinde

Love you Mom; love you Dad! Thank you for making me worthy of this! #HuskyAndProud Siddharth Nayar

Hey Mom, Dad, and my little brother! This one is for all of you! Love you all! Mugdha Priyadarshini

Mum, Dad, thanks for everything. Couldn't have made it without your support behind all my decisions! Sparsh Shrivastava

Mom and Dad, thank you for all of your support and love these past 5 years! *Tim Brandt* 

Thanks for always being there! Love you! Sophia Farquhar

Mom and Dad, thanks for always encouraging me to learn something. *Sarah Blum*  Special thanks to Mom, Dad, family, and friends for all the love, encouragement, and help.

Ted Smith

Thank you, Grandpa, for teaching me to be strong, to love, and to have faith. Have fun fishing.

Megan Pietruszewski

Aai and Baba, thank you for all the sacrifices you made. I owe my degree to both of you. Love you! *Yogendra Kulkarni* 

Endless thanks to Mom, Dad, Dr. Wu, and my boy Cooper for everything. WE MADE IT!

#### Mingrui Li

To my family, I am so glad you are here today. I made it, all because of you! Thank you! Love you! *Cassidy Sheffield* 

Thanks to my family for the love and encouragement, and my friends for the memories. We did it! *Logan Sheffield* 

Gracias a mi mamá por darme la inspiración y el apoyo para cumplir mis sueńos en la vida. Te adoro. *Christie E. Torres Rosa* 

I wouldn't be here if it wasn't for my family and awesome grandma and grandpa. Thank you.

Max A Tollefson

Thanks Mom and Dad, for the love, support, and inspiration! I wouldn't have made it here without you. *Kristen Bull* 

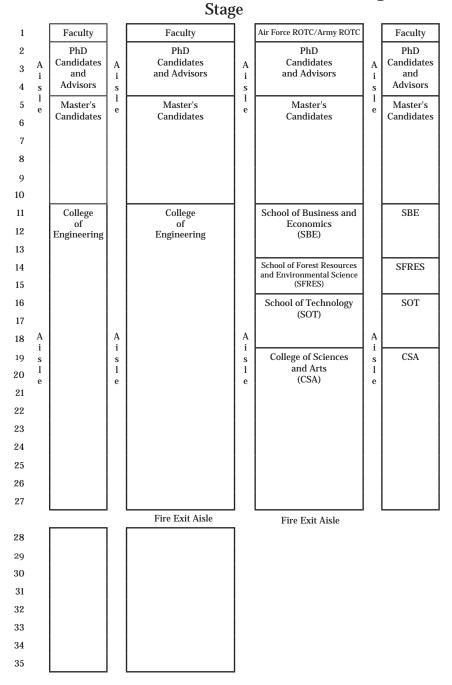
Dad, Mom, and Abby—Thank you for your love and support, I wouldn't be here without you! I love you! *Emily Vigil* 

I cannot describe how grateful I am for everything you have done for me. Love you Mom and Dad.

Kendra Gburek

Thank you for all the support throughout school! I wouldn't be here without my parents or fiancé! Jason Kaster

### Seating Chart



### Services

Drinking Water	<i>Fountains are located near the restrooms and in the main lobby of the Student Development Complex (SDC).</i>
First Aid	A medical station is available in the SDC Room 106. Emergencies Services are on standby. Ask an usher for assistance.
Food	Concessions are located on both sides of the arena in the street-level hallways. A vending area is located near the main lobby.
Photographs	Arrangements have been made to have color photos taken of each graduate. Proofs will be sent to the home address of each graduate within 1–2 weeks of graduation. There will be photo locations available at the graduation reception held in the Multipurpose Room directly following the ceremony.
Restrooms	Facilities are located in the street-level hallways that flank the ice arena. There are others in the main lobby.
Shopping	Campus retail stores are open. University Images is located in the SDC, and the Campus Bookstore is located in the Memorial Union Building on main campus.
Mobility	There is a section on the balcony for those with mobility limitations and for those in wheelchairs. Seating is also available in this section for family members. Please ask an usher for assistance.

The SDC is an alcohol-free and tobacco-free facility.

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Inside front cover: Husky sculpture by Brian Hanlon.



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