



So much to celebrate!

Hope your fingers are limbered up because there's A LOT to scroll through in today's grand graduation issue! Lots of student and faculty news, in addition to all the exciting highlights from our MSE Graduation Awards Dinner on April 25: a roll call of all our BSE, MSE and PhD graduates and a run-down of all our award winners. We have three fun videos in today's edition, so you're in for a real treat!

Ready, set, scroll!

Our final issue of the academic year -- which will feature all our MSE 482 and 365 teams and projects -- will be published on May 15. If you have something you'd like to submit, please send it to krisfres@umich.edu by Monday, May 13.



Graduating seniors **Thomas Rusli**, **Haley Whalen** and **Alexa Goldstein** spell out "MSE" during a photo session at the Graduation Awards Dinner April 25. Click [here](#) to see more photos.

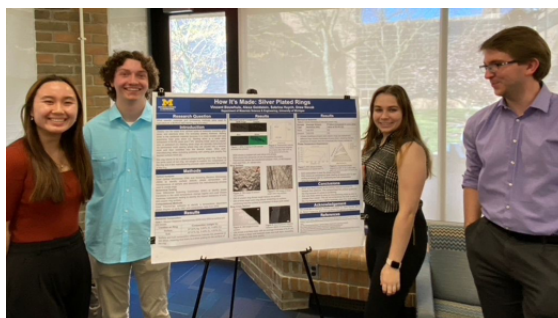
Upcoming Events

MSE 365 poster presentations tomorrow morning, May 2

When: Thursday, May 2, 9-11:00 a.m.

Where: Borg-Warner atrium, GGB

Everyone in MSE is encouraged to stop by and check out the students' projects.



Special DARPA seminar May 2



Speaker: Susan Swithenbank

When: Thursday, May 2, 2:00 p.m.

Where: 1010 Dow

Dr. Swithenbank is a program manager in the Defense Science Office at the Defense Advanced Research Projects Agency (DARPA). She will discuss the structure of DARPA, different types of programs that DARPA has, and ways to work with the agency.

Liz Holm Professorship Ceremony set for Aug. 20

MSE chair Liz Holm will be officially installed as the *Richard F. and Eleanor A. Towner Professor of Engineering* on **Tuesday, August 20** at **3:00 p.m. in the Johnson Rooms, LEC**, with a reception immediately following in Masco Commons. Mark your calendars now and plan to join us for this very special ceremony in August!



Research highlights

First high-resolution 3D nanoscale chemical imaging

achieved with multi-modal tomography

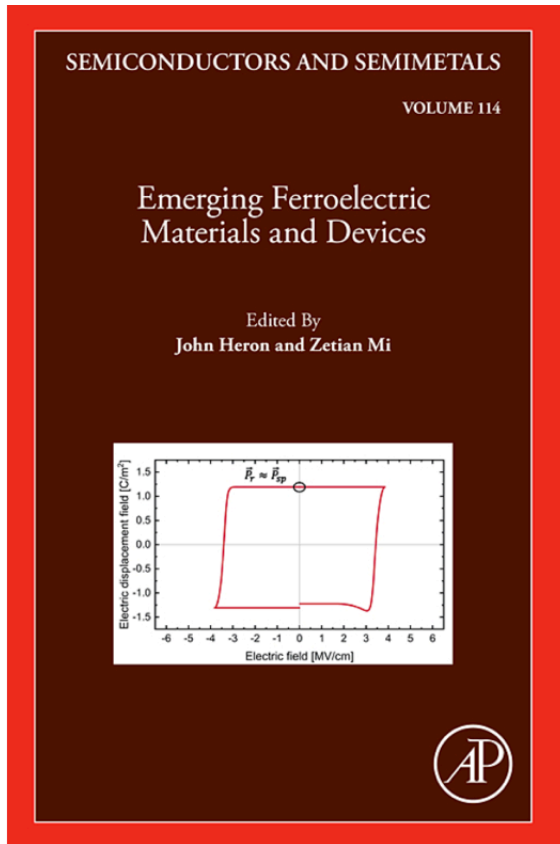


By exploiting a smart learning algorithm that fuses two microscopy signals, the Hovden lab has accomplished high-resolution, efficient 3D chemical imaging for the first time at the one-nanometer scale. [Read more.](#)

Faculty News & Awards

John Heron co-editor of new ferroelectric materials book

MSE Associate Professor John Heron teamed up with ECE Professor Zetian Mi to co-edit the new book *Emerging Ferroelectric Materials and Devices*. Part of the Semiconductors and Semimetals series published by



Elsevier, the book covers the latest developments in traditional oxide ferroelectrics, as well as in emerging nitride ferroelectrics, which are well-suited for use in microelectronics due to their potentially high endurance, small size, and low power consumption. This next generation of ferroelectrics could be a game-changer for non-volatile memory, which allows the storage of information in the absence of constant electric power. *Congratulations, John!* [Read more.](#)

Alan Taub quoted in U.S. News & World Report article



U.S. News & World Report recently tapped **MSE Professor Alan Taub**, director of the U-M Electric Vehicle Center, for comments for an article about how EVs are becoming a contentious topic with the presidential candidates. Taub commented that, independent of party and administration, if the U.S. doesn't lean full-throttle into the EV transition that is speeding toward us, it could put the "entire domestic auto industry at risk."

[Read more.](#)

Student News & Awards

Jon Goettsch receives DOE SCGSR Award



As a recipient of a DOE Office of Science Graduate Student Research award, **Jon Goettsch** of the Taub group will spend this summer working with Dr. Xianghui Xiao at the National Synchrotron Light Source II (NSLS-II) at Brookhaven National Laboratory in Upton, Long Island, N.Y. *Congratulations, Jon!* [Read more.](#)

MMS & GSC announce 2024-25 board members



The MMS president for next year is senior **Micah Gendich**. He will be joined by:

Manasi Londhe - Internal VP
Katherine Rybkin - External VP
Nicolette Harvey - Secretary
Matteo Carcassi - Treasurer
Jennifer Yung - Social Chair
Alex Cooper - Outreach Chair
Dan Casey - UG Representative
Lauren Adams - UG Representative

Congratulations to all!

GSC board veteran **Forrest Wissuchek** has signed on to serve as GSC president for 2024-25. The rest of the roster to date includes:

Gabi Grey - Secretary

Lakshman Vijay - 2nd Yr Master's Rep

Caroline Harms - 2nd Yr PhD Rep

Andrew Jalbert - 3rd Yr PhD Rep

Marcel Chlupsa - 4th Yr PhD Rep

Celeste Perez - DEI Liaison

Thank you all for your service!



New MSE video focuses on Blacksmithing Club



The latest MSE informational video from Yalisove Studios (thank you, Steve!) is an in-depth look at the Michigan Blacksmithing Club, featuring advisor Tim Chambers, as well as student interviews and scenes from the forging session a couple weeks

ago...plus some chicken cameos:-). Click on the image above to watch and be sure to share with others who might be interested in this cool club.

Graduation Awards Dinner Recap



More than 90 people attended the 2024 Graduation Awards Dinner held in the Ford Robotics Building last Thursday, April 25 to celebrate the MSE Class of 2024, which consisted of 36 undergrads, 30 master's graduates and 14 Ph.D. graduates. Inspirational messages were given this year by outgoing student organization presidents **Alexa Goldstein** (MMS) and **Loulou Batta** (GSC), which you can watch by clicking on the images below. In keeping with tradition, the festivities were capped off (no pun intended) by the taking of an MSE group photo. Thank you to everyone who attended for making it such a fun and festive evening, and **CONGRATULATIONS to ALL our amazing graduates!**
We are so proud of you and can't wait to see what indelible mark you make on the world!



MMS president Alexa Goldstein shared the lessons she learned from the process of getting her MSE degree, including what success means.



Though she couldn't be there in person, outgoing GSC president Loulou Batta shared U-M highlights from the year plus her thoughts on what it means to be a Michigan grad.



Abigail Ahn (Dec.)



Ryan Blackburn



Laura Bonds



Vincent Bouwhuis (Aug.)



Aaron Brokaw

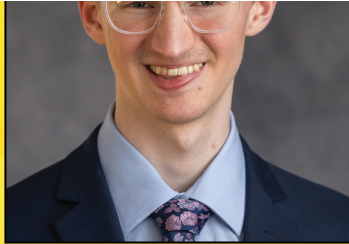


Erin Clingerman (Dec.)





Liam Cotter



Andy Danbury



Amanda Diddams



Josh Dukes



Madison Forstner



Micah Gendich (Dec.)



Alexa Goldstein



Heather Hare



Zoe Hu



Sabrina Hyunh



Reegan Ketzenberger



Charles Khayat



Tyler Lindemann



Manasi Londhe (Dec.)



Kevin Masel



Collin McManus



Bennett Mejia



Andrew Novak



Alexis Parrish



Aaryan Patel



Priya Patel (Dec.)





Ben Poole



Tejaswini Reddy



Benjamin Routhier



Penelope Springel



Haley Whalen



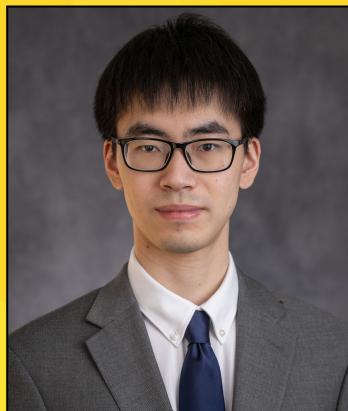
Dashal Womack (Dec.)



Zekun Wu



Audrey Yung



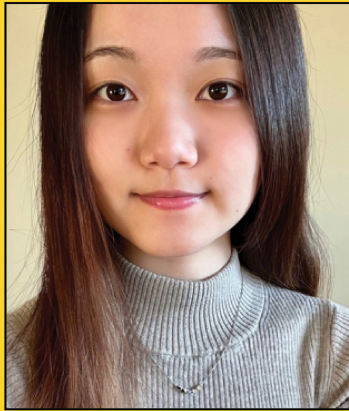
George Zhou (Dec.)



Master's graduates



Tiernan Baucom



Yushan Chen



Aaron Cooke



Yuxuan Deng



Alexandra Dewey



Leah Fleming





Vedant Gaikwad



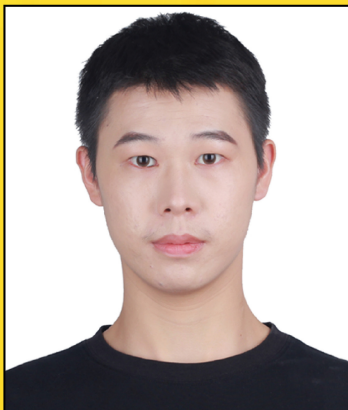
Elliott Gorishek



Gabrielle Grey



Yimo Hou



Jindong Huang



Tzu-Yun Hung



Andrew Jalbert



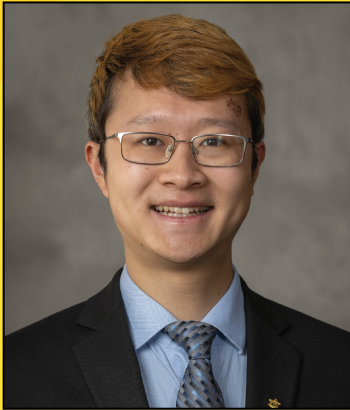
**Anto Jerish
Jeyadimal**



Mahie Kakade



Jialong Ke



Makoto Kimura



Druva Krishnaswami



Austin Lan



Jason Landini



Zhan Liang



Yushen Liu



Eli Rotman



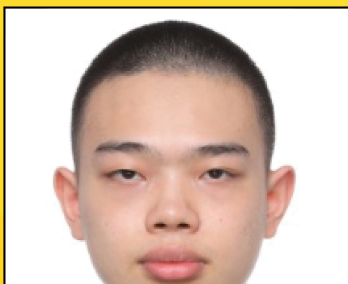
Joahua Samuels



Mariella Samuels



Dekota Thies

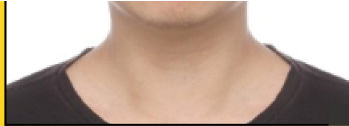


Chaobo Tong





Forrest Wissuchek



Zenan Zhang



Allen Zhou



Ph.D. graduates



Taylor Brandt

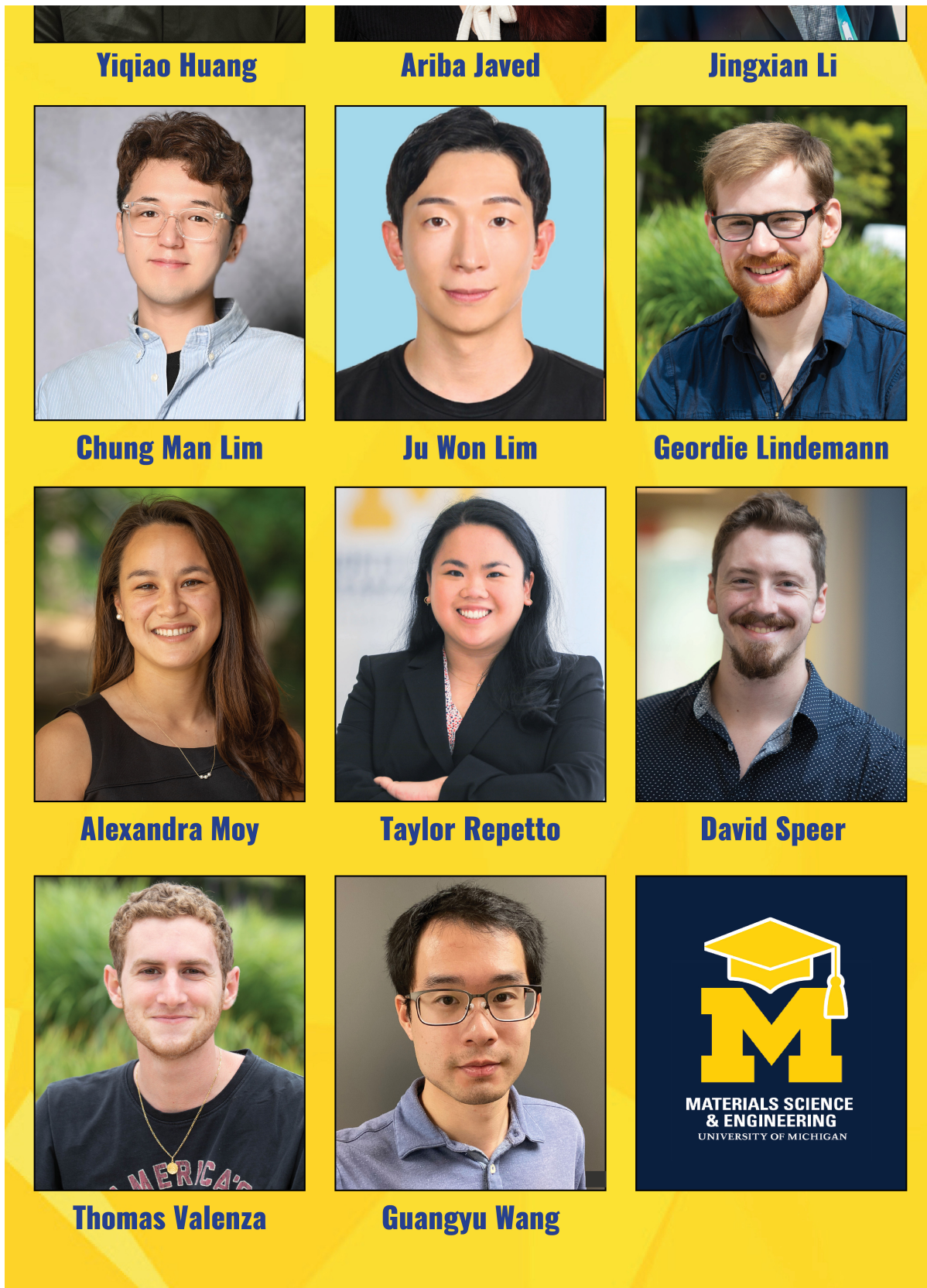


Jiadong Chen



Catherine Haslam







James P. Lettieri Award: Erin Clingerman



James P. Lettieri Award: Liam Cotter



James P. Lettieri Award: Andy Danbury



Brian Worth Prize: Micah Gendich



Anvil Award: Alexa Goldstein



MMS Distinguished Member: Andy Danbury



Alpha Sigma Mu Distinguished Member:
Madina Nosirova





Graduate Student Council (GSC)



2023-24 GSC board: Forrest Wissuchek, Tiernan Baucom, Mahie Kakade and Ellery Hendrix. Not pictured: Loulou Batta, Kyle Farmer, Alex Moy, Catherine Haslam, Lakshman Vijay.

Graduate Recruiting recognition



Organizers of 2024 Graduate Recruiting Visits: Forrest Wissuchek and Nina Perry (not pictured).

First to Publish: Nicholas David & Dongjae Shin



First to Publish (2022 cohort):

Above: Nicholas David (Sun group) published "The promise and pitfalls of AI for molecular and materials synthesis," in Nature Computational Science, May 18, 2023.

Below: Dongjae Shin (Li group) published "Oxygen tracer diffusion in amorphous hafnia films for resistive memory" in Materials Horizons, March 20, 2024.



Happy Graduation and GO BLUE!!

