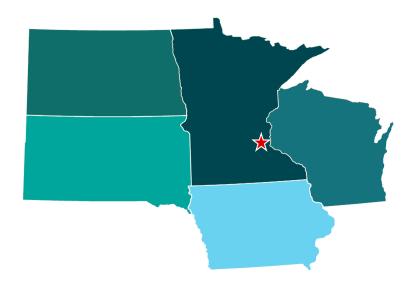
MICS 2025 Program Augsburg University



Check In: 12:00 - 3:30 pm

Welcome and Announcements

1:40 – 1:50 pm Hagfors Center Atrium

MICS 2025 Guest WiFi Network

SSID: mics2025 Password: AugU1869

Technical Session 1: 2:00 - 3:00 pm - Friday April 4, 2025

Cybersecurity: Hagfors 351		Session Chair: Mansi Bhavsar
2:00	Behavior as a Password: Machine	Joe Moriwa, Rushit Dave and Mansi
	Learning for Behavioral Biometric	Bhavsar
	Authentication	
2:30	Analyzing Ransomware Incidents in	Dominik Degele, Dawit Tesfaye and
	Healthcare: Patterns and Risk Assessment	Muhammad Abusaqer

Reinford	cement Learning: Hagfors 352	Session Chair: Alex Ewart
2:00	Winning is the Friends We Made Along	Alex Ewart, Mikhail Filippov, Peter
	the Way: Cooperative Reinforcement	Kwaterski, and Sam Keyser
	Learning	
2:30	Adaptive vs Traditional Q-Learning	Saif Khan, Kaif Khan and Cayden White
	Methodology	

ML for Business : Hagfors 367		Session Chair:Muhammad Abusaqer
2:00	Evaluating Quick-Commerce Platforms:	Toshif Khan and Muhammad Abusaqer
	A Sentiment and Topic Modeling	
	Analysis of User Reviews	
2:30	A Web Application for Walmart Store	Biyasu A and Mao Zheng
	Sales Forecasting	

ML using Computer Vision: Hagfors 373		Session Chair: Adrian Manchado
2:00	AI-Driven Soccer Analysis Using	Adrian Manchado, Tanner Cellio,
	Computer Vision	Jonathan Keane and Ian Wang
2:30	Machine Learning for Active Matter:	Yuva Gottimukala and Moumita
	Tracking and Analyzing Hexbug	Dasgupta
	Interactions	

Comput	er Science Education : Hagfors 301	Session Chair: Mathew Wright
2:00	A Reconstructive Multi-Objective	Eric Weinberg
	Hybrid Mixed Integer Genetic	
	Algorithm: Enhancing University Course	
	Timetabling with Adaptive Scheduling	
	Solutions	
2:30	Computational Inquiry in Undergraduate	Matthew Wright and Matthew Richey
	Math Courses	

Break: 3:00 – 3:30 pm - Snacks in Hagfors Center Atrium

Technical Session 2: 3:30 – 4:30 pm - Friday April 4

ML and	Pattern Recognition : Hagfors 351	Session Chair: Mansi Bhavsar
3:30	Leveraging Machine Learning for	Redeate Kidanue, Rushit Dave and
	Enhanced Music Recognition:	Mansi Bhavsar
	Algorithms and Applications	
4:00	Exploring Development Patterns with	Kwadwo Owusu and Sayantica
	Age Prediction	Pattanayak

ML in N	Medicine: Hagfors 352	Session Chair: Will Lassiter
3:30	Machine Learning-Assisted Vocal Cord	Will Sebelik-Lassiter, Quentin Robbins,
	Ultrasound Examination: Project VIPR	Evan Schubert, Excel Olatunji, Mustafa
		Barry, Muhammad Alliyu and Merry
		Sebelik
4:00	Beautiful Brain Blueprint: Visual	Grace Ivey, Joey Barganz, Ben Williams
	Stimulus Classification Through EEG	and Zach Peterson
	Signal Analysis	

AI and I	Environmental Science: Hagfors 367	Session Chair: Sydney Balboni
3:30	Wildfire Spread Prediction Using Deep	Sydney Balboni, Adam Swedlund, Zoe
	Learning	Kirkman, Reagan Burkemper, Mason
		Beynon and Michael Wood
4:00	SwarmRAG: A Distributed AI	Ben Paulson, Sydney Balboni, John
	Framework for Environmental Modeling	Cisler, Brett Storoe and Thomas
		Benzshawel

AI in Ed	lucation: Hagfors 373	Session Chair: Samantha Foley
3:30	Chatbot for Academic Advising	Avari Caya and Samantha S. Foley
	_	
4:00	Student Performance & Behavior Dataset	Asmita Pun, Breanna Olson and
		Abusaqer Muhammad

CS Edu	cation: Hagfors 301	Session Chair: Sean Jones
3:30	More Than Technical: Embedding	Sean Jones
	Professional Competencies in a Software	
	Requirements Course	
4:00	Web scraping IMDB site with Python –	Mm Bari
	A ChatGPT proof assignment!	

Robotics Contest and Pizza Party 4:45 – 6:15 pm in Hagfors Center Atrium

Sponsored by:



Programming Contest Announcements 6:30 – 7:00 pm in Hagfors 150

Programming Contest 7:00 – 10:00 pm in Hagfors 150

Technical Session 3: 9:00 – 10:00 am - Saturday April 5

Faculty BoF: Hagfors 351		Session Chair: Samantha Foley
9:00	Faculty BoF: Exploring Faculty Hiring	Allison Sauppé and Samantha S. Foley
	Trends and Opportunities at Our	
	Institutions	

LLM Performance: Hagfors 352		Session Chair: Aiden Miller
9:00	Osire: Democratizing LLM Workflows	Adam Haile and Aiden Miller
	for High Performance Computing	
9:30	An Extra RMSNorm is All You Need for	Cody Steinmetz, Gavin Childress,
	Finetuning to 1.58 Bits	Jasdeep Singh, Keagan Weinstock,
		Aaron Herbst and Eli Vang

Green a	nd Ethical Computing: Hagfors 367	Session Chair: Wenkai Guan
9:00	How GPUs Secretly Inflate AI's Carbon	Youzhi Li and Wenkai Guan
	Footprint: GPU-aware Carbon Modeling	
	Exposes Hidden Carbon Emissions	
9:30	Reducing Bias in AI: Ethical and	Cheyenne Douglas
	Technical Approaches	

Multi-Agent Systems: Hagfors 373		Session Chair: Leigh Goetsch
9:00	Applications of Reinforcement Learning	Andrew Needham, Evan Roegner,
	in Competitive Robotics	Joseph Beattie, Andy Dao and Leigh
		Goetsch
9:30	Enhancing Collaboration in Multi-Agent	Hugo Garrido-Lestache Belinchon and
	Environments with Attention-Based	Jeremy Kedziora
	Actor-Critic Policies	

Applic	ations of ML: Hagfors 151	Session Chair: Abhishek Ghimire
9:00	Predicting YouTube Video View Counts:	Jalal Khalil and Abhishek Ghimire
	Analyzing the Impact of Visual Features and Metadata	
9:30	Mobility Patterns and Urban Travel	Jalal Khalil and Aseia Nabi
	Behavior in the Twin Cities	

Break: 10:00 – 10:30 Snacks in Hagfors Atrium

Technical Session 4: 10:30 – 11:30 - Saturday April 5

CS Education: Hagfors 351		Session Chair: Mark Fienup
10:30	Flipped Classroom Revisited	Mark Fienup
11:00	Lessons Learned from the Development	Tomi Heimonen and Tim Krause
	of a Multi-Disciplinary Pre-capstone	
	Course in Computing	

ML in N	Medical Imaging: Hagfors 352	Session Chair: Caleb Gray
10:30	Transformers, Tumors, and Time:	Caleb Gray, Alexander Neher, Sonia
	Improving Multi-Modal Image	Grade, Bart Gebka, John Bukowy and
	Registration Using Cross-Modal	Peter LaViolette
	Attention and Spatial Encoding	
11:00	Beyond Boundaries: Building a General	Alexander Neher, Alexander Drobek,
	Latent Space for Medical Imaging with	Alhagie Boye, Sonia Grade, Autumn
	Self-Supervised Learning	Mizer, Caleb Gray and Bart Gebka

AI and Gaming: Hagfors 367		Session Chair: Zachary Warns
10:30	AI Plays Ultimate TicTacToe	Zachary Warns
11:00	Semi-supervised Weights for Action	Dylan Norquist
	Generalization (SWAG)	

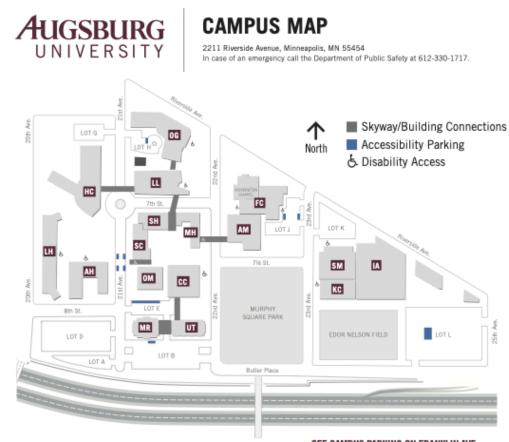
Ethics in AI: Hagfors 373		Session Chair: Benjamin Fine
10:30	An Overview of Gender and Political	Jared B. Jones, Naeem Seliya, Emily M.
	Biases in LLMs	Hastings and Benjamin T. Fine
11:00	Generative AI: Emerging Policy,	Caroline Cronk, Cheryn Lindsay and
	Innovation, and Debate	Isaac Wayne

Cybersecurity: Hagfors 151		Session Chair: T. Mohottalalage
10:30	Emerging Paradigms in IoT Security: A	Samuel Arne, Thivanka
	Comprehensive Survey of Malware, Threats,	Mohottalalage and Akalanka
	Vulnerabilities, and Countermeasures	Mailewa
11:00	Psyber-Security Revisited: A	Thivanka Mohottalalage, Anushka
	Comprehensive Literature Review on	Hewarathne and Akalanka Mailewa
	Integrating Psychological Principles into	
	Cybersecurity	

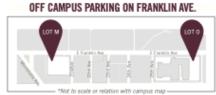
CS Education: Hagfors 301		Session Chair: Elena Machkasova
10:30	A beginner-friendly environment for	Tristan Kalvoda, Elena Machkasova,
	exploring error messages in the Clojure	Jaydon Stanislowski and John Walbran
	programming language.	

Keynote and Awards Ceremony 11:45 – 12:45 pm in Hagfors Center 150

Box Lunches and Departure 12:45 pm in Hagfors Center Atrium



ALL LOTS REQUIRE A PERMIT 24 Hours a day, seven days a week.



AM Anderson Music Hall

AH Anderson Residence Hall

CC Christensen Center

FC Foss Lobeck Miles Center

HC Hagfors Center

IA Ice Arena

KC Kennedy Center

LL Lindell Library

LH Luther Residence Hall

MH Memorial Hall

MR Mortensen Residence Hall

OM Old Main

OG Oren Gateway Center

SC Science Hall

SM Si Melby Hall

SH Sverdrup Hall

Sverdrup Hal

UT Urness Tower

PARKING

A. Faculty/Staff Permits

B. Residential/Commuter Student

C. Commuter Student

D. Faculty/Staff Permits

E. Short-Term Visitor (3 hour max)

G. Faculty/Staff Permits

H. Reserved *

J. Reserved **

K. Commuter Student

L. General Permit Parking

OFF CAMPUS PARKING

M. Faculty/Staff Permits 2001 Minnehaha Ave.

O. Faculty/Staff Permits 2511 Franklin Ave. East

augsburg.edu/about/map

Updated December 12, 2017 8:39 AM

Park in Lot D or L: (no permits required in those lots)

Important Contacts:

mics2025@micsymposium.org

Augsburg University Public Safety at 612-330-1717

Nearby Restaurants:

Nabo - located in Oren Gateway Center (Friday until 6pm, closed Saturday)
Einstein's - located in Christensen Center (Friday until 8pm, Saturday 7:30am to 3pm)
Jimmy John's - located on Riverside just north of Hagfors (10:30am to 10pm)
Oasis Mediterranean Grill - located on Riverside & 20th just north and west of Hagfors (11am-8pm)