

# NAISE All-Hands Technical Meeting 2025

## Information Booklet

# September 11, 2025

Final Agenda	Pages 2 - 3
Speakers and Breakout Leaders	Pages 4 - 6

#### **VENUE**

**Northwestern, Evanston Campus** 

### **Main Room**

Technological Institute, Room LR3 (L 151) 2145 Sheridan Rd. Evanston, IL, 60208 Tech Room Finder

#### **Lunch & Breakouts**

NAISE HQ, Hogan Building, Suite 1-160 2205 Tech Drive, Evanston, IL, 60608 https://maps.northwestern.edu/facility/88

## **Afternoon Additional Breakout**

Silverman Hall, Room 2-510
2170 Campus Dr., Evanston, IL, 60608
https://maps.northwestern.edu/facility/276

#### **PARKING**

Northwestern North Parking Garage\*
2311 N. campus Drive, Evanston, IL, 60208
<a href="https://maps.northwestern.edu/facility/646">https://maps.northwestern.edu/facility/646</a>
\*once at event, please ask for a validation ticket

#### **NAISE CONTACTS**

**Technical:**Begum Gulsoy – Director of Research e-gulsoy@northwestern.edu

Logistics: Iustitia Ko – Program Assistant iustitia.ko@northwestern.edu



## FINAL AGENDA

## **NAISE All-Hands Technical Meeting**

September 11, 2025 @ Northwestern – Evanston Campus

<b>All Times CST</b> 08:45AM – 09:05AM 09:05AM – 09:10AM	Location [@Main Room] unless otherwise noted Breakfast & Registration Welcome
09:10AM - 09:30AM	NAISE Overview & Vision Neelesh Patankar, Northwestern
09:30AM - 09:40AM	Programmatic Updates & Reminders Begum Gulsoy, Northwestern
09:40AM - 09:55AM	Topical Keynote: Autonomous Labs, Discovery, and Robotics Ilke Arslan, <i>Argonne</i> (Virtual)
09:55AM – 10:10AM	Topical Keynote: Quantum Science  Quantum-HPC: Where We're At And Where We're (Likely) Headed  Laura Schulz, Argonne
10:10AM - 10:30AM	Coffee Break
10:30AM – 10:45AM	Topical Keynote: Microelectronics <b>Argonne Microelectronics Institute</b> Amanda Petford-Long, <i>Argonne</i>
10:45AM – 11:00AM	Topical Keynote: Water Sensing, Filtration and Critical Materials A New Way To Think About Water: Rapidly Quantifying Human Experiences For Maximizing Impact Sera Young, Northwestern
11:00AM - 11:10AM	Coffee Break
11:10AM - 12:00PM	Parallel Breakouts  Session 1:  Quantum Science  Leads: Kate Smith & Nikos Hardavellas, Northwestern
	Session 2 [@NAISE HQ]: Water Sensing, Filtration and Critical Materials Leads: Aaron Packman & Sera Young, Northwestern
12:00PM - 01:10PM	Lunch & Networking [@NAISE HQ]



01:10PM - 01:40PM Topical Keynotes: AI Models and Applications

**Northwestern Network for Collaborative Intelligence** 

Abel Kho, Northwestern

**AI for National Security** 

V. S. Subramanian, Northwestern

01:40PM - 01:55PM Walk to Breakouts

01:55PM - 02:55PM Parallel Breakouts

**Session 3:** 

**Autonomous Labs, Discovery and Robotics** 

Lead: Kevin Lynch, Northwestern

Session 4 [@NAISE HQ]:

**AI Models and Applications** 

Lead: Mathew Cherukara, Argonne

Session 5 [@Silverman 2-510]:

Microelectronics

Lead: Mark Hersam, Northwestern

02:55PM - 03:15PM Walk back to main room & break

03:15PM - 03:40PM Report Outs

03:40PM – 04:00PM Action Items & Next steps

04:00PM Adjourn



## **SPEAKERS AND BREAKOUT LEADS [Listed in order of agenda]**



Neelesh Patankar | Northwestern

NAISE Co-Director

Professor, Department of Mechanical Engineering

<u>Link to bio / interests</u>



Begum Gulsoy | Northwestern

NAISE Director of Research

Research Associate Professor, Department of Materials Science and Engineering

Link to bio / interests



Ilke Arslan | Argonne
Deputy Associate Lab Director
Physical Sciences and Engineering Directorate

Link to bio / interests



Laura Schulz | Argonne
Project Lead for Innovation
Argonne Leadership Computing Facility

Link to bio / interests



Amanda Petford-Long | Argonne
NAISE Co-Director
Director, Argonne Microelectronics Institute
Director, Materials Science and Engineering Division

Link to bio / interests





**Sera Young |** Northwestern Co-Director, Northwestern Center for Water Research Professor, Department of Anthropology

Link to bio / interests



**Kate Smith |** Northwestern Assistant Professor, Department of Computer Science

Link to bio / interests



Nikos Hardavellas | Northwestern Professor, Departments of Computer Science & Electrical and Computer Engineering

Link to bio / interests



Aaron Packman | Northwestern
Co-Director, Northwestern Center for Water Research
Professor, Department of Civil and Environmental Engineering

Link to bio / interests



Abel Kho | Northwestern
Co-Director, Northwestern Network for Collaborative Intelligence
Director, Institute for Artificial Intelligence in Medicine
Professor, Departments of Medicine & Preventive Medicine

<u>Link to bio / interests</u>





V. S. Subrahmanian | Northwestern Co-Director, Northwestern Network for Collaborative Intelligence Professor, Department of Computer Science

Link to bio / interests



**Kevin Lynch** | Northwestern Director, Northwestern Center for Robotics and Biosystems Professor, Department of Mechanical Engineering

Link to bio / interests



Mathew Cherukara | Argonne Group Leader & Computational Scientist, Computational Science and Al Group Advanced Photon Source

Link to bio / interests



Mark Hersam | Northwestern
Chair & Professor, Department of Materials Science and Engineering
Director, Materials Research Science and Engineering Center (MRSEC)

Link to bio / interests