

OC ACM Executive Committee

Format: Online via Zoom

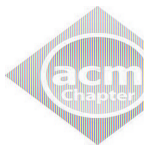
Zoom Link: <https://acm-org.zoom.us/j/93004927026?pwd=NWRGR0RObUJWZFK5N0NjdFdBMUxEdz09>

Date: May 28, 2025



Agenda

- Review of prior meeting minutes
- Officers / Volunteers
- Treasurer's Report
- May Event Postmortem
- Future Event Planning
- Committee Business

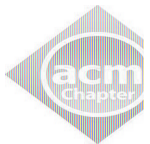


Meeting Attendees



- *Michael Fahy*
- *Allen Takatsuka*
- *Dan Whelan*
- *Marc Velasco*
- *Nilo Niccolai*
- *Winsor Brown*
- *Ansel Teng*
- *Don Choi*
- *Trae Palmer*

- *Raman Rajan*
- *Shirley Tseng*
- *Cynthia Kirkeby*
- *Farhad Mafie*
- *Jared Miller*
- *Kenneth Aguilar*
- *Dawn Childs*
- *Taylor Noh*
- *Stephen Landaas*



Motions



Motion	Moved By	Seconded By	Status
Approve April 2025 Executive Committee minutes			

Officers



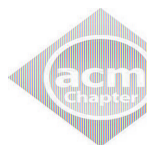
Position	Volunteer
Chair	Taylor Noh
Vice-Chair	Stephen Landaas
Treasurer	Michael Fahy Ph.D.
Secretary	Marc Velasco
Communications	Allen Takatsuka
Webmaster	Stephen Landaas
SIGAI-OC Liaison	Ansel Teng Ph.D.
Membership Chair	Farhad Mafie



Officers (cont'd)



Position	Volunteer
University Liaison	Michael Fahy Ph.D.
Programs Chair	Jared Miller
Program Speaker Coordinators	Raman Rajan, Farhad Mafie
Program Video Coordinator	Trae Palmer
Social Media Committee	Don Choi, Cynthia Kirkeby, Trae Palmer
Membership Committee	Open
Hospitality	Open
Fundraising Coordinator	Open
Members at Large	A. Winsor Brown, Shirley Tseng, Nilo Niccolai Ph.D.



Treasurer's Report EOM April 2025

Beginning Balance	\$7,847.01	04/01/25
Deposits	\$0.00	
Expenses	\$0.00	
Current Balance	\$7,847.01	04/30/25
Restricted Funds	\$2,964.20	IBM Grant
Unrestricted Balance	\$4,882.81	04/30/25

Treasurer's Report 5/27 May 2025

Beginning Balance	\$7,847.01	05/01/25
Deposits	\$36.00 \$118.00	5/25 June meeting donations 5/27 January and March meeting donations
Expenses	\$120.66	5/25 to Taylor for June meeting expenses
Current Balance	\$7,880.35	05/37/25
Restricted Funds	\$2,964.20	IBM Grant
Unrestricted Balance	\$4,916.15	05/27/25

May Event Postmortem

Texera: Cloud-Based Collaborative Data Science and AI/ML Using Workflows

- Feedback on presentation (11 IEEE Members & 2 ACM students present)
- What did we do well and what can we improve on?

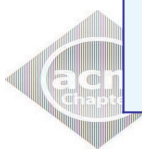


Future Event Planning



Next Program Event Planning

Date	Speaker	Talk
3/18/2026		
1/21/2026		
11/19/2025		
9/17/2025	Dr. Taylor Patti	Quantum Computing - Fundamentals, Hardware, and HPC/AI Opportunities
7/16/2025	Distinguished Speaker Mohammad Abdullah Al Faruque	Cyber-Physical Vulnerabilities in Autonomous Systems
5/21/2025	Prof. Chen Li & Jiadong Bai	Texera: Cloud-Based Collaborative Data Science and AI/ML Using Workflows
3/19/2025	David Cunningham Business Technology Officer at Alvaka	Ransomware Recovery: Navigating the Storm
1/15/2025	Peter D. Chang, M.D. UCI Applied AI Research Center	AI in Medicine: From Concept to Clinic, What it Takes to Deploy and Commercialize AI in Medicine



July Event Proposal: Cyber-Physical Vulnerabilities in Autonomous Systems



Abstract: Cyber-physical systems (CPS) are in every security-sensitive autonomous system, such as aerospace, automotive, UAVs, robotics, energy, healthcare, manufacturing, transportation, and consumer appliances. CPSs are engineered systems that are built from and depend upon the seamless integration of computation and physical components [NSF]. Embedded systems comprising hardware and software systems are the primary enabling technology for these cyber-physical systems. Compared to traditional information processing systems, new vulnerabilities emerge from the boundaries between various layers due to the tight interactions between cyber and physical components in CPSs and closed-loop control from sensing to actuation. In this lecture, Dr. Al Faruque will discuss how new vulnerabilities emerge at the intersection of various components and subsystems and their various hardware, software, communication, and physical layers. Several recent examples from various cyber-physical systems will be presented in this talk. A very different set of methodologies and tools are needed to understand these new vulnerabilities. Defenses against these vulnerabilities also demand new hardware/software co-design approaches. The lecture will highlight recent developments in this regard. The primary goal of this lecture will be to highlight various research challenges and the need for novel scientific solutions from the larger research community.



July Event Proposal: Cyber-Physical Vulnerabilities in Autonomous Systems

- Dr. Al Faruque's stance is that cyber-physical systems present a critical area of concern for security, and innovative, interdisciplinary research is essential to mitigate emerging threats.
- Discussion as to appropriateness of the topic in general and specifics of the proposed talk



Meeting Topics



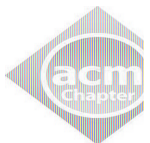
Recent Meetings

- Memory System Performance
- Airspace Autonomy
- Data Science in Medicine
- AI in Medicine
- Ransomware
- Cloud-Based Collaborative Data Science and AI/ML Using Workflows

Future Meetings

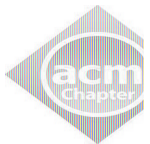
- Cyber-Physical Vulnerabilities in Autonomous Systems
- Quantum Computing
- **What other topics should we focus on this year?**
 - **Quantum Computing**
 - **Internet of Things (IoT)**
 - **Computer Networking**
 - **Cyber Security**
 - **Robotics (Drone Swarms)**
- **Industry vs. Academia**

Orange County



OC Tech Companies

- <https://tms-outsource.com/blog/posts/tech-companies-in-orange-county/>
- Do any of us have contacts at these or other companies that we could approach either to ask to speak or to nominate potential speakers?



Member Poll Questions

- Should we poll members for topics?



Future Speakers – Follow-up



Updates from April:

- Michael, Dan, Jared – Michael introduced us to Dr. Taylor Patti. Dan and Jared have been coordinating the meeting for her to speak in September.
- Farhad, Jared – Farhad reached out to Dr. Al Faruque and Jared has coordinated the meeting for him to speak.



Future Program Event Candidates (UCI)

Machine Learning

- Stephan Mandt (anomaly detection without supervised learning)
- Roy Fox (reinforcement learning, robotics)
- Jing Zhang (ML applied to bioinformatics)
- Alex Berg (computational visual recognition, starts @UCI Spring 2022)
- ~~Dr. Peter Chang (AI and Medicine)~~

Control Theory & Robotics

- Magnus Egerstedt, Dean of Engineering, Samueli School of Engineering (Referred by Aaron Ames of Caltech)

System

- Sang-Woo Jun (acceleration)
- Sangeetha Jyothi (Data center networking)
- Moshen Imani (bio-inspired computing)

Theory

- Vijay Vazirani (involved with the design of early Google Ad Placement Alg.)

Informatics

- Vladimir Minin (Data analysis wrt infectious diseases)
- Stacy Branham (human-centered computing)



Future Program Event Candidates

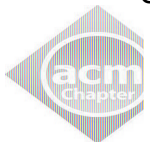


Potential Speakers

- Caltech Professor Yisong Yue, ML [Dan]
- Andrew Kirkland, CISO at Starbucks
- Beth Harnick-Shapiro [Marc]
- Bill Lobig VP IBM Software Development - Analytics [Marc]
- [Christophe Begue](#), ex-IBM (Blockchain) now PDF Solutions
- John Koon, Tech Idea Research - Autonomous Cars
- Bill Cleveland – Data Visualization (M. Fahy has reached out to him)
- Alanna Gombert, Global CRO at MetaX – Blockchain
- Sushant Rao - Operational Analytic Data Stores (M. Fahy has reached out to him)
- Paul Anderson, Anderson Software Group – Go language
- Alyssa Columbus, Data Scientist at Pacific Life - Robust and Reproducible Predictive Modeling Workflows
- Dianne Cook, Prof. of Business Analytics, Monash University – Data Visualization

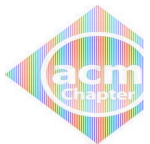
Topics

- Interest in potentially having a future talk focused on Privacy By Design (PbD) and related best practices identified in March meeting
- Feedback from three May meeting attendees:
 - LLM applications and Real-world use cases
 - IOT
 - AI
 - Cybersecurity discussion around the current attack approaches
 - IP law update



ACM Chapter Administrative Interface & Related Admin Tasks

- Current Officers are now listed on the ACM site
- Events listed through our most recent meeting
- Annual report is due for fiscal year ending June 30th



Committee Business



Volunteer Updates

- AJ Albrecht for Hospitality Chair

New/Other Business

- SIGAI

