

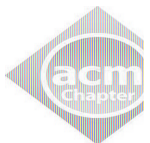
OC ACM Executive Committee

Format: Online via Zoom

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

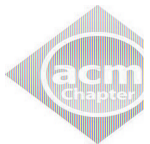
Date: April 23, 2025

Call to order 12:03pm



Agenda

- Review of prior meeting minutes
- Officers / Volunteers
- Treasurer's Report
- May Event Planning
- 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*

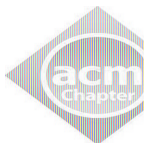
- *Raman Rajan*
- *Shirley Tseng*
- *Cynthia Kirkeby*
- *Farhad Mafie*
- *Jared Miller*
- *Kenneth Aguilar*
- *Dawn Childs*
- *Taylor Noh*
- *Stephen Landaas*



Motions



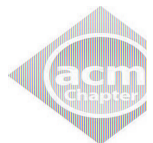
Motion	Moved By	Seconded By	Status
Approve March 2025 Executive Committee minutes	Dan	Jared	Approved



2025-2026 Officers & Volunteers



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



2025-2026 Officers & Volunteers (cont'd)



Position	Volunteer
University Liaison	Michael Fahy Ph.D.
Programs Chair	Jared Miller
Program Committee	Raman Rajan, Farhad Mafie, Dan Whelan
Program Video Coordinator	Trae Palmer
Social Media Committee	Trae Palmer, Cynthia Kirkeby
Membership Committee	
Hospitality	[We Need a Volunteer]
Fundraising Coordinator	
Members at Large	A. Winsor Brown, Nilo Niccolai Ph.D.

Open positions for membership and hospitality, maybe use a rotating list of volunteers for hospitality?



Treasurer's Report EOM March 2025

Beginning Balance	\$7,938.48	03/01/25
Deposits	\$0.00	
Expenses	\$91.47	03/26/25 to Taylor Noh for January meeting
Current Balance	\$7,847.01	03/31/25
Restricted Funds	\$2,964.20	IBM Grant
Unrestricted Balance	\$4,882.81	03/31/25

No Deposits, 1 expense for
march meeting.

May Event Planning

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

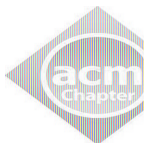
Since 2016 our team at UC Irvine has been developing the Texera open-source system (texera.io), with the goal of enabling a cloud-based platform to support collaborative data science, AI, and ML. It allows users with various backgrounds, including those with limited coding skills, domain scientists, and ML engineers. We use GitHub, Jupyter, and Google Docs.

After eight years of development, the system now supports commenting, debugging, user-defined functions, and various data processing techniques. Its backend parallel engine enables users to run workflows. It allows bioinformaticians to elastically request resources and supports a community-based sharing of resources including GPUs.

In this talk, we will give an overview of the system and how to use it. We will also give an overview of its software architecture and how it integrates with other systems, including education and scientific research.

- Thanks to Dan Whelan for recommending the event
- Any special prep to do for his presentation
- Event promotion plan and distribution
- Pre-meeting happy hour at SOL Mexican Cocina from 5 PM to 6:15 PM

- 2 microphones needed, Trae to check setup again
- Dan setup event tags initially, see if we can socialize to other AI meetups
- 28 currently signed up
- Ansel to post in SIGAI
- Jared to socialize in OWASP meeting at google
- Allen to request to play some jazz live in background, Taylor to ask Knobbe
- Dan to confirm with speak on happy hour, Taylor to send invite
- Knobbe confirmed support for location through 2025
- Everyone should try to promote event in their networks



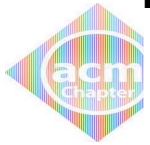
Future Program Calendar

Date	Speaker	Talk
5/21/2025	Prof Chen Li and Jiadong Bai	Texera: Cloud-Based Collaborative Data Science and AI/ML Using Workflows
7/16/2025		
9/17/2025	Taylor Patti (Proposed)	Quantum Computing - Fundamentals, Hardware, and HPC/AI Opportunities
11/19/2025		
1/21/2026		
3/18/2026		

We need your help identifying, y

- New proposal for September talk
- July is open, ideal to get speaker before next meeting
- No candidates yet, chasing leads, can pay for travel

I suggest that we have a meeting of the Programs Committee to get working on this issue as soon as possible.



September Event Proposal: Quantum Computing - Fundamentals, Hardware, and HPC/AI Opportunities



Abstract: In this talk, I will overview the basic tenants of quantum computing and highlight the areas in which we hope to find advantage in these areas. I will also provide a brief review of the leading quantum computer architectures of recent years, describing their advantages and limitations. Finally, I will discuss the opportunities that HPC and AI have in the quantum computing field, both to improve quantum hardware and algorithms, as well as to outperform quantum computers on the very tasks for which we hope that they excel.

Bio: Taylor is a senior research scientist at NVIDIA. Her research interests are all things at the intersection of quantum and classical computation, including quantum algorithms, machine learning for quantum applications, and the efficient simulation of quantum systems. She holds Bachelor's degrees in Computational Science, Mathematics, and theoretical physics from Harvard University.

- Discussion

- Good proposal and sounds like a good talk
- Dan to close loop with Taylor
- Should define HPC in title for actual event



Meeting Topics



Recent Meetings

- Memory System Performance
- Airspace Autonomy
- Data Science in Medicine
- AI in Medicine
- Ransomware

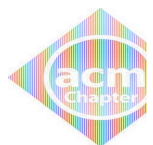
Future Meetings

- Data Science and AI
- Quantum Computing
- **What other topics should we focus on this year?**
 - **Quantum Computing**
 - **Internet of Things (IoT)**
 - **Computer Networking**
 - **Cyber Security**

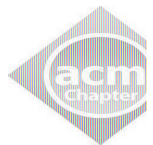
(Drone Swarms)

Academia

- Ansel – SW engineering change with generative AI
- Allen – Agententic AI, outpus of LLMs with actions
- Dan – has a Brain Computer interface lead
- Taylor – Reached out to Beth Harnick-Shapiro, sustainable entergy startup keeling labs
- Trae – Drones, swarms, might be interesting as more drone shows get used in place of fireworks



Future Speakers – Follow-up



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

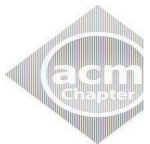
- Sang-Woo Jun (acceleration)
- Sangeetha Jyothi (Data center networking)
- Moshen Imani (bio-inspired computing)

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

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



Committee Business



Volunteer Updates

New/Other Business

- Michael – reached out to UCI and CSUF for student award nominations, plan to present at may meeting
- Need to schedule signature authority meeting with wells fargo, maybe next week Tues/Thurs, confirmed availability 1230 on 29th/30th, probably 12-1 for Stephen
- Need to get more certificate handouts/paper
- Dan to get certificates for next meeting
- Trae – social media promotion to start 28th
- Michael to print new inserts for name tag holders
- Awards typically handed out at beginning of meeting

Adjourn 12:39pm

