

# UC Noyce Initiative

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## 2024

# UC Noyce Symposium



## Agenda & Schedule

Tuesday, Oct. 29, 2024

UC Irvine Susan & Henry Samueli  
College of Health Sciences



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## Additional Information

### Symposium Location

Sue Gross Auditorium, Susan & Henry Samueli College of Health Sciences  
856 Health Sciences Quad  
Irvine, CA 92697-3950.

### On-Campus Parking

Health Sciences Parking Structure  
Parking permits will be provided.  
Please follow the signage to obtain a permit for your vehicle.

## Welcome Letter from the UC Irvine VC for Research

On behalf of the UC Noyce Initiative's executive committee, I welcome each one of you to this year's multicampus symposium at UC Irvine.

First, I'd like to extend a special acknowledgment to the Robert Noyce trustees joining us today – Michael Groom and Timothy Hopkins. We are deeply grateful for your presence, and we look forward to sharing our programs and insights with you.

I would also like to express our sincere gratitude to the many researchers across the five campuses who are working on exciting projects funded by the UC Noyce Initiative. Your creativity, expertise, collaboration and innovation are at the heart of this initiative. The work you are doing is not only advancing scientific knowledge but also shaping the future of digital transformation for the public good.

As members of the UC Noyce Initiative, we appreciate our collective responsibility to honor the extraordinary legacy of Robert Noyce and his wife, Ann Bowers, whose foresight and philanthropic passion laid the foundation for the UC Noyce Initiative. Their belief in the transformative power of research and education at world-class research universities, such as the five UC campuses in this collaboration, is reflected in this initiative, which aims to change the world.

When reflecting on the legacy of Robert Noyce, we see that his pioneering research and entrepreneurship were fueled by curiosity and creativity. In that same spirit, we have embarked on this five-campus collaboration to

address the challenges and opportunities of the digital age.

The University of California is the finest public research university in the world, and we are thrilled to gather here today as a collective of scholars, researchers and leaders. The combined strength of our five campuses empowers the UC Noyce Initiative to push boundaries, innovate and create meaningful impact across disciplines.

At UC Irvine, interdisciplinary collaboration is a core value. Our faculty and researchers constantly seek opportunities to bridge fields and campuses, enhancing their work with the breadth and depth that only a collaborative university system can offer. This symposium reflects that spirit of collaboration as we come together not only to discuss current research but also to forge new partnerships and envision future breakthroughs.

This symposium would not be possible without the tireless efforts of our UC Irvine organizing committee. I want to particularly thank the new executive director of the UC Noyce Initiative, Bryan Kerner, who has already made an impressive impact since stepping into this role in May. I also extend our thanks to the members of our dedicated development team. Their hard work has championed this initiative since its inception.

### **Pramod Khargonekar, Ph.D.**

UC Noyce Initiative Executive Committee Chair  
Vice Chancellor for Research, UC Irvine  
Distinguished Professor, Electrical Engineering  
and Computer Science, The Henry Samueli  
School of Engineering

## Introduction from the Executive Director, UC Noyce Initiative

As the executive director of the UC Noyce Initiative, I am honored and excited to welcome you to this year's symposium. This event showcases the incredible potential of our multicampus collaboration.

First, I'd like to express my deep gratitude to the co-founder of Intel, Robert Noyce, and his wife, Ann Bowers, whose foresight and philanthropic vision led to the creation of this groundbreaking multicampus consortium. Their commitment to innovation and education continues to inspire us all. I would also like to extend a special thanks to the Noyce trustees, Michael Groom and Timothy Hopkins, for carrying forward Robert and Ann's vision and bringing it to life through their ongoing support and leadership.

I extend my deep appreciation to the researchers across our five UC campuses who are leading pioneering work funded by the initiative. These collaborations represent the true strength of the UC system, where each campus is a world-class institution, but together we form one of the most powerful research consortiums in the world.

This initiative is driven by a shared vision – to harness the power of digital transformation for the public good. With your collective expertise, we are not only advancing scientific discovery but also planting the seeds for research that will have a lasting global impact.

I'm motivated by the potential that lies ahead, knowing that the work we support today will shape the world tomorrow. Thank you for your dedication and contributions. I look forward to the many innovations that will emerge from our collaboration.

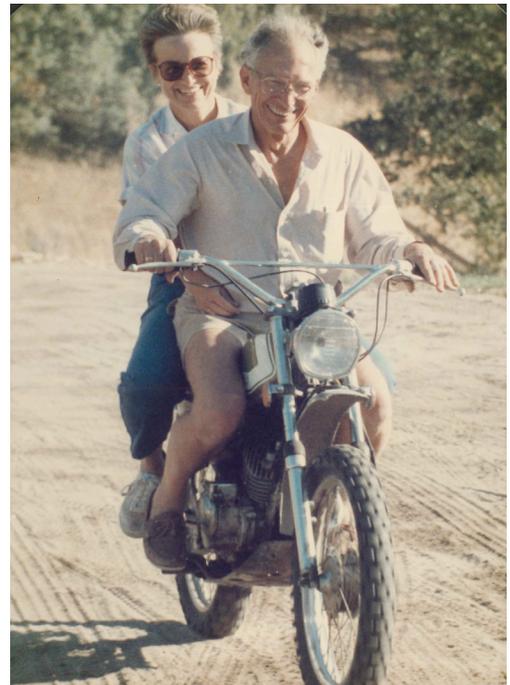
Let's continue to drive this initiative forward, together.

**Bryan Kerner**  
Executive Director, UC Noyce Initiative

## Recognition of Robert N. Noyce, Ph.D., and Ann S. Bowers

*"Innovation is everything. When you're on the forefront, you can see what the next innovation needs to be."*

— **Robert N. Noyce**



*Noyce and Gordon Moore, 1970*

## Schedule

The symposium will be held in the Sue Gross Auditorium, Susan & Henry Samueli College of Health Sciences.

The check-in, poster session, breakfast and networking lunch will take place on the first-floor patio. The cocktail reception will be on the second-floor patio.

### Symposium (9 a.m.–5:30 p.m.)

<b>9–10:30 a.m.</b>	Check-In, Poster Session and Breakfast
<b>10:30–10:40 a.m.</b>	Welcome: Pramod Khargonekar, Vice Chancellor for Research, UC Irvine
<b>10:40–11:50 a.m.</b>	Quantum Computing: Lightning Talks and Panel Discussion
<b>11:50 a.m.–Noon</b>	Noon Break/Transition to Lunch
<b>Noon–1:15 p.m.</b>	Networking Lunch
<b>1:15–1:30 p.m.</b>	Break/Transition to Auditorium
<b>1:30–3 p.m.</b>	Computational Health (Women’s Brain Health & Precision Medicine): Lightning Talks and Panel Discussion
<b>3–4:20 p.m.</b>	Cybersecurity, AI and Policy: Lightning Talks and Panel Discussion
<b>4:20–4:25 p.m.</b>	Closing Remarks
<b>4:25–5:30 p.m.</b>	Cocktail Reception

## UC Noyce Initiative | Leadership



**Bryan Kerner**

Executive Director, UC Noyce Initiative



**Katherine Yelick, UC Berkeley**

Vice Chancellor for Research



**Simon Atkinson, UC Davis**

Vice Chancellor for Research

UC Noyce Initiative | **Leadership**



**Pramod Khargonekar, UC Irvine**

| Vice Chancellor for Research



**Harold Collard, UC San Francisco**

| Vice Chancellor for Research



**Joseph Incandela, UC Santa Barbara**

| Vice Chancellor for Research

## UC Noyce Initiative | Development Team



**Kaja Sehrt**  
*UC Berkeley*  
Chief Development Officer



**Janet Berry**  
*UC Davis*  
Executive Director of  
Development, Student  
Support



**Roland Ho**  
*UC Irvine*  
Associate Vice  
Chancellor, Strategic  
Philanthropy



**Jason Solle**  
*UC San Francisco*  
Executive Director,  
Principle Gifts



**Chris Pizzinat**  
*UC Santa Barbara*  
Executive Director of  
Development, Central  
Development and Interim  
Department Lead



**Lynn Hawks**  
*UC Santa Barbara*  
Senior Assistant Dean

## Panelists and Speakers | Profiles and Research Links

### Quantum Computing



#### **Hartmut Häffner, UC Berkeley**

Professor, Department of Physics

<https://physics.berkeley.edu/people/faculty/hartmut-haeffner>



#### **Ania Jayich, UC Santa Barbara**

Professor, Physics Department; Associate Director,  
Materials Research Lab

<https://www.cnsi.ucsb.edu/people/faculty/ania-bleszynski-jayich>



#### **Shimon Kolkowitz, UC Berkeley**

Associate Professor and Herst Chair in Physics

<https://physics.berkeley.edu/people/shimon-kolkowitz>



#### **Marina Radulaski, UC Davis**

Associate Professor, Electrical and Computer Engineering

<https://rlab.engineering.ucdavis.edu>

## Panelists and Speakers | Profiles and Research Links

### Quantum Computing, continued



**Javier Sanchez-Yamagishi, UC Irvine**

Assistant Professor, Physics & Astronomy

<https://eqi.uci.edu/javier-sanchez-yamagishi/>



**David Weld, UC Santa Barbara**

Professor, Physics

<https://www.physics.ucsb.edu/people/david-weld>

### Computational Health (Women's Brain Health & Precision Medicine)



**Kaitlin Casaletto, UC San Francisco**

Associate Professor, Neurology  
UCSF Weill Institute for Neurosciences

<https://memory.ucsf.edu/people/kaitlin-casaletto-phd>



**Chen-Nee Chuah, UC Davis**

Professor, Department of Electrical and Computer Engineering

<https://ece.ucdavis.edu/directory/chen-nee-chuah>

## Panelists and Speakers | **Profiles and Research Links**

### Computational Health (Women's Brain Health & Precision Medicine), continued



#### **Brittany Dugger, UC Davis**

Associate Professor, Department of Pathology and Laboratory Medicine  
Co-Leader, UC Davis Alzheimer's Disease Research Center  
Neuropathology Core

[https://health.ucdavis.edu/pathology/our\\_team/faculty/duggerB.html](https://health.ucdavis.edu/pathology/our_team/faculty/duggerB.html)



#### **Anu Manchikanti Gómez, UC Berkeley**

Associate Professor, School of Social Welfare and director of the Sexual Health and Reproductive Equity (SHARE) Program.

<https://vcresearch.berkeley.edu/faculty/anu-manchikanti-gomez>



#### **Joshua Grill, UC Irvine**

Professor, Psychiatry & Human Behavior, School of Medicine  
Professor, Neurobiology and Behavior, Charlie Dunlop School of Biological Sciences

<https://medschool.uci.edu/about/faculty/jgrill>



#### **J. Russell Huie, UC San Francisco**

Assistant Professional Researcher, Brain and Spinal Injury Center at  
Zuckerberg San Francisco General Hospital

<https://fergusonlab.ucsf.edu/people/j-russell-huie>

Panelists and Speakers | **Profiles and Research Links**

Computational Health (Women's Brain Health & Precision Medicine), continued



**Emily Jacobs, UC Santa Barbara**

Associate Professor, Psychological & Brain Sciences  
Director, Ann S. Bowers Women's Brain Health Initiative

<https://psych.ucsb.edu/people/faculty/emily-jacobs>



**Kaylo T. Littlejohn, UC Berkeley**

Ph.D. student, Department of Electrical Engineering and  
Computer Sciences

<https://www.kaylolittlejohn.com/>



**Janine Lupo, UC San Francisco**

Associate Professor, Department of Radiology and Biomedical Imaging

<https://radiology.ucsf.edu/research/labs/lupo>



**Nina Miolane, UC Santa Barbara**

Assistant Professor, Department of Electrical and Computer Engineering  
Co-Director, AI Core, Ann S. Bowers Women's Brain Health Initiative

<https://www.ece.ucsb.edu/people/faculty/nina-miolane>

## Panelists and Speakers | [Profiles and Research Links](#)

### Computational Health (Women's Brain Health & Precision Medicine), continued



**Craig Stark, UC Irvine**

Professor, Neurobiology and Behavior, Charlie Dunlop School of Biological Sciences

<https://www.faculty.uci.edu/profile/?facultyId=5504>

### Cybersecurity, AI and Policy



**Hao Chen, UC Davis**

Associate Professor, Department of Statistics

<https://anson.ucdavis.edu/~haochen/>



**Miguel Eckstein, UC Santa Barbara**

Distinguished Professor, Department of Psychological and Brain Sciences

<https://psych.ucsb.edu/people/faculty/miguel-eckstein>



**Shafi Goldwasser, UC Berkeley**

Professor, Electrical Engineering and Computer Sciences

<https://simons.berkeley.edu/people/shafi-goldwasser>

## Panelists and Speakers | [Profiles and Research Links](#)

### Cybersecurity, AI and Policy, continued



#### **Athina Markopoulou, UC Irvine**

Professor, Electrical Engineering and Computer Science  
Professor (Joint Appointment), Donald Bren School of Information and  
Computer Sciences

<https://engineering.uci.edu/users/athina-markopoulou>



#### **Sanjit Seshia, UC Berkeley**

Professor, Electrical Engineering and Computer Sciences

<https://www2.eecs.berkeley.edu/Faculty/Homepages/seshia.html>



#### **Zubair Shafiq, UC Davis**

Associate Professor

<https://www.cs.ucdavis.edu/~zubair/>



#### **Gene Tsudik, UC Irvine**

Distinguished Professor, Department of Computer Science

<https://ics.uci.edu/people/gene-tsudik/>

## Keynote Speaker | **Leslie M. Thompson**



### **Leslie M. Thompson, UC Irvine**

Donald Bren and Chancellor's Professor, Psychiatry & Human Behavior, School of Medicine

Donald Bren and Chancellor's Professor, Neurobiology and Behavior, Charlie Dunlop School of Biological Sciences

Professor, Biological Chemistry, School of Medicine

### **Presentation: Computational & Precision Health**

Leslie M. Thompson, Ph.D., has studied Huntington's disease (HD) for most of her scientific career and was a member of the international consortium that identified the causative gene for HD in 1993. She also co-identified the mutation

causing achondroplasia, the most common genetic form of short-limbed dwarfism. Since that time, the Thompson laboratory has been actively engaged in investigating the fundamental molecular and cellular events that underlie how the mutant HD gene causes neurodegeneration, with the goal of developing new treatments.

The laboratory also focuses on understanding mechanisms that underlie amyotrophic lateral sclerosis and more recently X-linked dystonia-parkinsonism. The research benefits from the integrated use of patient stem cells and mouse models of disease together with the studies of RNA biology, protein quality control and network-based bioinformatics.

Thompson is founding co-editor-in-chief of the *Journal of Huntington's Disease* and the principal investigator of the OMICS core of the Answer ALS program, a precision medicine approach to understand sporadic ALS in more than 1,000 ALS subjects. Thompson is also the associate director of research for the UCI Institute for Precision Health.

## Trustees, Robert N. Noyce Trust



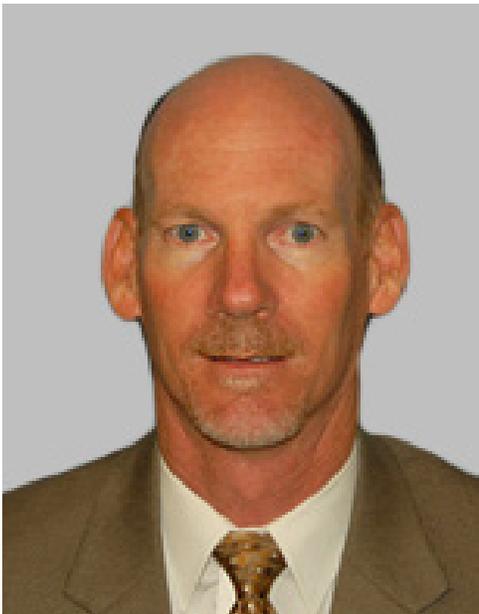
### **Michael Groom, Noyce Trustee** Groom and Cave, LLP

Michael Groom is a graduate of Santa Clara University School of Law, where he received his Juris Doctor degree in 1970. He studied and received his undergraduate degree from the University of California, Santa Barbara in 1967. Upon admission to the State Bar of California in 1971, Groom joined the law firm of Miller, Morton, Caillat & Nevis, LLP as an associate and became a partner in 1976. He left Miller Morton in 1988 to found Groom & Cave, LLP.

Groom has focused his practice on providing legal advice to high-net-worth individuals and public and private businesses on commercial transactions of all kinds, including the purchase and sale of businesses and real estate transactions.

Beginning in 1980, Groom began representing wealthy individuals and companies in connection with the purchase, sale, financing, management, ownership and operation of new and pre-owned business aircraft. Since that time, Groom has become very well known among those involved in business aviation and has assisted clients in connection with hundreds of aviation-related transactions by providing legal and tax advice on the structuring of such transactions for the benefit of clients.

## Trustees, Robert N. Noyce Trust



### **Timothy Hopkins, Noyce Trustee** Groom and Cave, LLP

Timothy Hopkins graduated from the University of California, Santa Barbara in 1982 with a B.A. in political science and received his law degree from Santa Clara University, in Santa Clara, California, in 1986. Hopkins joined the firm of Hopkins & Carley in San Jose, California, in 1990 and was a partner in the litigation and commercial transactions department from 1993 until 1997. Hopkins joined the firm of Groom & Cave, LLP in 1997 and has focused his practice on tax and business planning for individuals.

In addition, Hopkins' practice is focused on providing advice to individuals and companies in connection with the purchase, sale, leasing, financing, tax structure, ownership and management of aircraft. His practice includes the representation of owners' purchasing fractional interests in aircraft as well as whole aircraft. Hopkins has worked extensively with all of the companies offering fractional ownership programs and has concluded in excess of 100 transactions for clients purchasing fractional interests in aircraft.

## Additional Attendees

Mahyar Abbasian	Ph.D. Student, Computer Science	UC Irvine
Pierre Baldi	Professor, Computer Science	UC Irvine
Karen Bales	Professor, Psychology	UC Davis
Catarina Belem	Ph.D. Student, Computer Science	UC Irvine
Peter Burke	Professor, Electrical Engineering and Computer Science	UC Irvine
Liz Chrastil	Associate Professor, Biological Sciences	UC Irvine
Nikil Dutt	Professor, CS, EECS & Cognitive Sciences	UC Irvine
William Evans	Distinguished Professor, Chemistry	UC Irvine
Margaret Galvez	Ph.D. Student, Computer Science	UC Irvine
Soheil Ghiasi	Professor, Electrical and Computer Engineering	UC Davis
Scott Grafton	Distinguished Professor, Psychological & Brain Sciences	UC Santa Barbara
Matthew Harding	Professor, Economics and Statistics	UC Irvine
Yifeng He	Ph.D. Student, Computer Science	UC Davis
Brian Hervey	Vice Chancellor, University Advancement and Alumni Relations	UC Irvine
Andrew Jayich	Associate Professor, Department of Physics	UC Santa Barbara
Elahe Khatibi	Ph.D. Student, Computer Science	UC Irvine
Isaac Kim	Assistant Professor, Computer Science	UC Davis
Jung-Ah Lee	Professor, School of Nursing	UC Irvine
Hamza Liaqat	Ph.D. Student, School of Nursing	UC Irvine
Audrey Lu	Ph.D. Student, School of Nursing	UC Irvine
Jocelyn Ludlow	Associate Clinical Professor, School of Nursing	UC Irvine
Bill Maurer	Dean, School of Social Sciences	UC Irvine
Melika Momenzadeh	Ph.D. Student, Electrical and Electronics Engineering	UC Irvine
Adeline Nyamathi	Professor, School of Nursing	UC Irvine
Marios Papaefthymiou	Dean, Information and Computer Science	UC Irvine
Amir Rahmani	Professor, Nursing and Computer Science	UC Irvine

## Additional Attendees

Christopher Rashidian	Doctoral Candidate at Purdue University	UC Irvine
Mahkameh Rasouli	Ph.D Student, Nursing	UC Irvine
Alex Rubin	Ph.D. Student, Physcis	UC Davis
Kenji Sagae	Chair, Department of Linguistics	UC Davis
Preethi Seshadri	Ph.D. Student, Computer Science	UC Irvine
Sanjit Seshia	Professor, Electrical Engineering and Computer Sciences	UC Berkeley
Maxim Shcherbakov	Assistant Professor, Electrical Engineering and Computer Science	UC Irvine
Yasser Shoukry	Associate Professor, Electrical Engineering and Computer Science	UC Irvine
Ziyu Wang	Ph.D. Student, Computer Science	UC Irvine
Clare Yu	Professor, Physics & Astronomy	UC Irvine

## Associated Noyce Initiative Team Members

**Cynthia Chandrasena, UC Irvine**

Executive Assistant and Project Coordinator to Associate Vice Chancellor, Strategic Philanthropy

**Tyler Martz, UC Berkeley**

Program Director, Office of the Vice Chancellor for Research

**Allison Chilcott, UC Davis**

Executive Director of Development, Office of Research

**Maria Napoli, UC Santa Barbara**

Director of Strategic Initiatives

**Gretchen Kiser, UC San Francisco**

Executive Director, Research Development Office

**Sky Zhang, UC Irvine**

Program Management Officer

Thank you for attending the

2024

UC Noyce Symposium

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*"Go off and do something wonderful."*

— Robert N. Noyce

**UC Noyce Initiative**

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