

JUMP 2.0 SAB F2F with Center Leadership

April 25-26, 2023 ADI @ Wilmington, MA



Roman Caudillo JUMP 2.0 and JUMP Director

Imagining a great 2-day F2F meeting

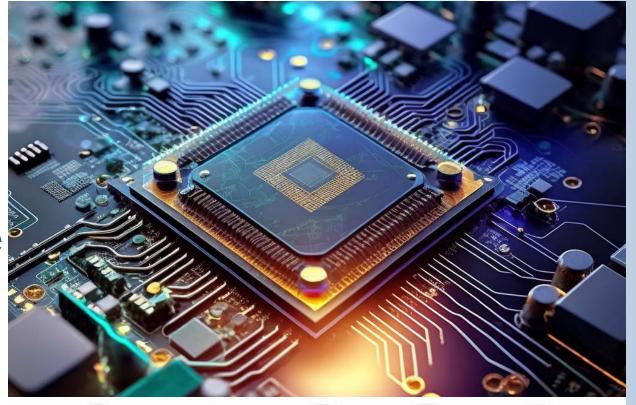
Midjourney prompt: A meeting of semiconductor industry experts and university professors and researchers in Boston





Re-Imagining a great 2-day F2F meeting

Midjourney prompt: A meeting of *diverse* semiconductor industry and academic experts coming together to define the research that will determine the technologies of tomorrow





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Broadening Participation – JUMP 2.0

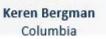
Proposal Requirements:

- >= 25% New (non-SRC) faculty minimum of 5
- >= 25% Young faculty: 'Young' <= 3 yrs in Tenure track minimum of 5
- Broadening Participation Plan included in SOW
 - Increase student workforce and broadening participation as cost-share priorities

Broadening Participation Result: SUCCESS!

- Broadening Participation Plan: 100%
 - All proposals included BP plan amplifying University DEI efforts
- New Faculty: 34% of performers
- Young Faculty: 29% of performers
- 3/7 Center Directors are female







Tajana Rosing
UC/San Diego



Huili (Grace) Xing Cornell



List of Attendees – SAB (15 sponsors attending)

Get to know each other over these next 2 days!

We will be working together over the next 5 years to build the most successful SRC-DARPA program yet!

Organization	<u>Last_Name</u>	First_Name	
Arm	Hermes	Jon	
Analog Devices, Inc.	Robertson	David	
Analog Devices, Inc.	Wallrabenstein	John Ross	
Analog Devices, Inc.	Zvonar	Zoran	
Boeing Company	Lee	Timothy	
DARPA	Chang	Tsu-Hsi	
DARPA	Palmer	William D.	
EMD Electronics	Kanjolia	Ravi	
EMD Electronics	Moinpour	Mansour	
Global Foundries	Viggiani	Nick	
HRL Laboratories	Chow	David H.	
IBM Corporation	Chen	Ching-Tzu	
Intel Corporation (Remote)	Young	lan	
Intel Corporation (Remote)	Dasu	Aravind	
MediaTek, Inc.	Manganaro	Gabriele	
Micron Technology, Inc.	Akel	Ameen	
Micron Technology, Inc	Kramer	Steve	
Raytheon Technologies	Burkland	Mike	
Raytheon Technologies	Martinez	Edgar	
Raytheon Technologies	Zanoni	Raymond	
Samsung Electronics Co., Ltd.	Ahosan Ul Karim	Muhammed	
Samsung Electronics Co., Ltd.	Simka	Harsono	
Samsung Electronics Co., Ltd.	Song	Woo-Bin	
SK hynix Inc.	Kim	Hoshik	
SRC	Bell	Tameka	
SRC	Caudillo	Roman	
SRC	Knapp	Adam	
TSMC	Chang	Marvin	
TSMC	Diaz	Carlos H.	



List of (Registered) Attendees – Centers

Get to know each other over these next 2 days!

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<u>Center</u>	Last_Name	First_Name	Organization
ACE	Minlan	Yu	Harvard University
ACE	Mircea Radu	Teodorescu	Ohio State University, Columbus
ACE	Torrellas	Josep	University of Illinois at Urbana-Champaign
CHIMES	Sorger	Volker	George Washington University
CHIMES	Swaminathan	Madhavan	Pennsylvania State University
CoCoSys	Lin	Yingyan	Rice University
CoCoSys	Panda	Priyadarshini	Yale University
CocoSys	Raghunathan	Anand	Purdue University
CoCoSys	Seo	Jae-sun	Arizona State University
CoCoSys	Raychowdhury	Arijit	Georgia Tech
COGNISENSE	Bakir	Muhannad S.	Georgia Institute of Technology
COGNISENSE	Mukhopadhyay	Saibal	Georgia Institute of Technology
COGNISENSE	Romberg	Justin	Georgia Institute of Technology
CUbiC	Bergman	Keren	Columbia University
CUbiC	Ghobadi	Manya	Massachusetts Institute of Technology
CUbiC	Krishnaswamy	Harish	Columbia University
CUbiC	Niknejad	Ali M.	University of California, Berkeley
PRISM	Gavrilovska	Ada	Georgia Institute of Technology
PRISM	Kim	Nam Sung	University of Illinois at Urbana-Champaign
PRISM	Narayanan	Vijaykrishnan	Pennsylvania State University
PRISM	Yu	Shimeng	Georgia Institute of Technology
SUPREME	Giustino	Feliciano	University of Texas at Austin
SUPREME	Khan	Asif I.	Georgia Institute of Technology
SUPREME	Palacios	Tomas	Massachusetts Institute of Technology
SUPREME	Xing	Huili	Cornell University



Spotlight on JUMP 2.0!

Forbes

More Than \$250 Million To Be Invested In Seven University Microelectronic Research Centers

Michael T. Nietzel Senior Contributor @

I am a former university president who writes about higher education.



Jan 6, 2023, 06:00am EST







SRC Launches JUMP 2.0 Consortium Aimed at Leap-Ahead Microelectronics Revolution

JUMP 2.0, led by the Semiconductor Research Corporation, expands collaboration in new program spanning 7
U.S. university research centers

January 04, 2023 09:00 AM Eastern Standard Time



DARPA wants to upgrade the way we make chips. How exactly will that work?

Dr Dev Palmer talks us through a JUMP in materials, algorithms, tools

Thomas Claburn

Mon 23 Jan 2023 // 23:14 UTC

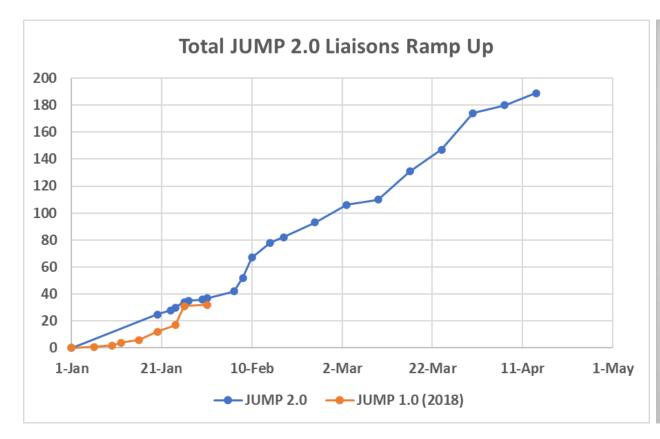


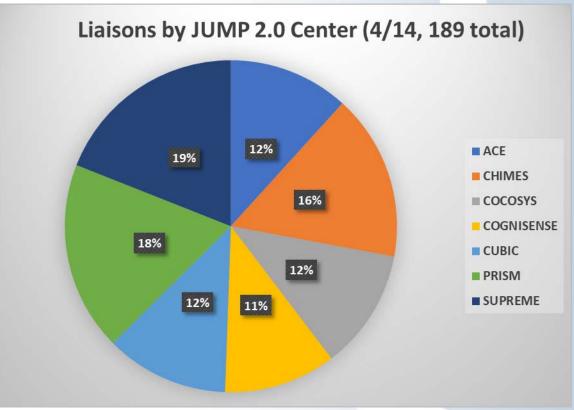
.: JUMP 2.0 Consortium Targets Microelectronics Innovation

JUMP 2.0 SRC and DARPA announcements on Jan 4th
Picked up and amplified by Press – Forbes on Jan 6th
See great interviews with Dev Palmer in the Register and Adam Knapp in Photonics Media



JUMP 2.0 Liaisons – Tracking the Ramp Up

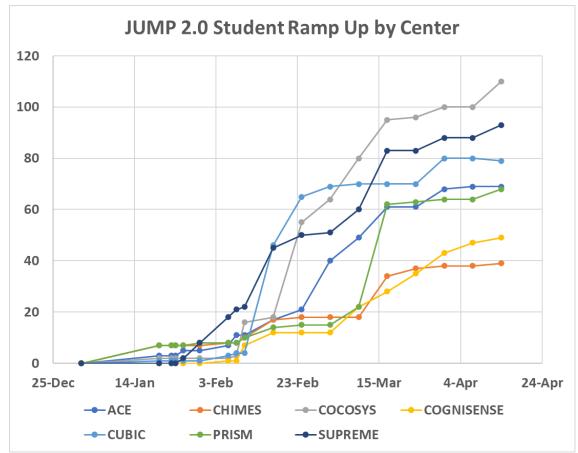


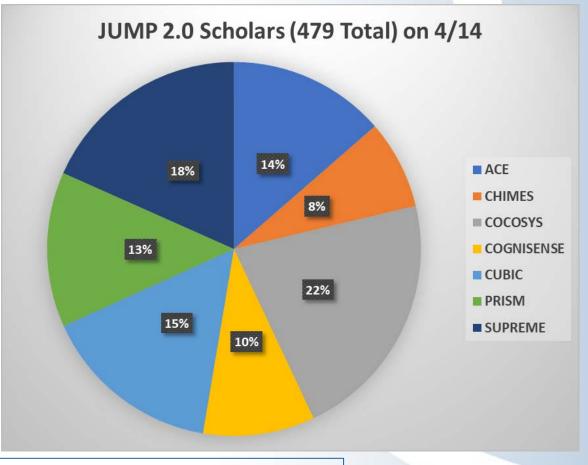


JUMP 2.0 Ramp Up is on track with 189 liaisons signed up (out of 254 slots) and liaison meetings have kicked off



JUMP 2.0 Research Scholars – Tracking the Ramp Up





JUMP 2.0 Student Ramp Up is underway (479 scholars 4/14) Goal ~600 Scholars in 6 months 1st Six NSF REU Sites to be announced – Let's connect!



Liaison Meetings Ramp Up

Monday	Tuesday	Wednesday	Thursday	Friday
CHIMES 8-9:30 PT T2: 3/13 ?		CoCoSys 8-9am PT Start 4/12?		
PRISM All-day Spring Event 4/11 ACE 4-5pm PT Odd months		PRISM: 9-10am PT T1: 3/1 ?	Every 6 week ACE 10-11am I	CUBIC: T3 10 am ET Every 6 weeks
		COGNISENSE: 8 am PT Every Wednesday		ACE 10 11am DT
		CUBIC: T1 12 pm PT T2 9 am ET Every 6 weeks		Even months
	·	SUPREME 1-2pm PT Start 4/5		
		PRISM: 5-6pm PT T2: 4/5 ?		



Center Liaison Meetings are filling up the weekly calendar

Agenda – Day 1

Plenty of Opportunities for Q&A, Discussion, and Teambuilding



