## 20 International Symposium on Academic Makerspaces

Hosted by





6-8 AUGUST 2025

### PROGRAM HIGHLIGHTS



### Adam Savage | Aaron Hoover Opening Keynote

Adam Savage is a celebrated maker, designer, and former co-host of the hit show MythBusters, where he brought science to life through explosive experiments and creative problem-solving. With a background in special effects for films like Star Wars and The Matrix, Adam blends technical skill with a deep passion for storytelling. Through his YouTube series Tested, he shares behind-the-scenes builds, tool tips, and his love for the maker mindset. A champion of curiosity, hands-on learning, and the creative process, Adam continues to inspire a global community of tinkerers, inventors, and dreamers to build boldly and think differently.



### Leah Buechley | Closing Keynote

Leah Buechley is a pioneering designer and engineer best known for inventing the LilyPad Arduino, which made electronics wearable, sewable, and creatively accessible. As founder of the High-Low Tech group at the MIT Media Lab, she blended high-tech tools with traditional crafts—like paper circuits, interactive clothing, and glowing origami. Her work has been featured in museums and has inspired a global community of makers, artists, and educators. Now a professor at the University of New Mexico, she leads the Hand and Machine Research Group, reimagining how we teach, design, and play with technology.



### Andrew Evans | Special Reception Performance

Andrew Evans is a designer, entrepreneur and magician. He founded and built The Magic Patio —a magic speakeasy tucked in a hidden corner of San Francisco—and his unique magic inventions have been featured at The Magic Castle in Hollywood and on national television for Penn and Teller's: Fool Us. Beyond the stage, Andrew worked as a Design Lead at IDEO and Nike, and was a lecturer in Design Leadership at Stanford University's d.school. He holds a Bachelor's Degree in Civil Engineering from Brown University, and Master's Degree in Product Design from Stanford.



### Karl D.D. Willis | Senior Research Manager, Autodesk

In this talk, Autodesk Research's Senior Research Manager will explore the evolution from generative design to generative AI, sharing how foundational models are transforming professional design workflows across architecture, engineering, and manufacturing. He'll offer an inside look at how these advances are being integrated into the Fusion product roadmap—reshaping the role of the designer and unlocking new creative possibilities.

### DAY 0 | WEDNESDAY · 6 AUGUST

9:00 - 12:00 ISAM 101 | DESIGN, BUILD AND MANAGE A MAKERSPACE

JACOBS INSTITUTE FOR DESIGN INNOVATION • PRE-REGISTRATION REQUIRED

1:00 - 5:00 **ISAM 102** | MAKERSPACE PROTOTYPING, PEDAGOGY, & PRACTICAL SETUP JACOBS INSTITUTE FOR DESIGN INNOVATION • PRE-REGISTRATION REQUIRED

4:30 **SYMPOSIUM CHECK-IN OPENS** 

6:00 - 8:30 **WELCOME RECEPTION** | DR. PAUL JACOBS • DEAN MARK ASTA JACOBS INSTITUTE FOR DESIGN INNOVATION

TOURS

### TOURS

### Tours Of Bay Area Design And Innovative Centers Of Excellence The Exploratorium, California College Of The Arts, Autodesk Pier 9

## DAY 1 | THURSDAY · 7 AUGUST

CHECK	-IN OPENS
BREAKFAST	
WELCO	ME TO ISAM 2025
ADA	M SAVAGE PRESENTS THE AARON HOOVER OPENING KEYNOTE
REAK	• 15 MIN
MIN	DFUL MAKING: FOR PEOPLE, PLANET, AND PURPOSE
MARLO	D KOHL (STANFORD)
11:00	YUPANA: UNDERSTANDING THE ENVIRONMENTAL IMPACT OF DIGITAL FABRICATION PROTOTYPING THROUGH A LIFE CYCLE IMPACT ASSESSMENT ELDY LAZARO (CU BOULDER) • HAO-CHUAN WANG (UC DAVIS) • BARBARA LINK (UC DAVIS) • KATIA VEGA (UC DAVIS)
11:15	REPURPOSED PLA AS A LASER CUTTER STOCK MATERIAL LILI HURST (OHIO STATE) *ISAAC BREWER (COSTAL CAROLINA UNIVERSITY) *JOSEPH MINNICH (CASE WESTERN)
11:30	PROTOCOLS FOR HEALTHY ACADEMIC MAKERSPACES OFELIA VILOCHE (UC DAVIS) • BETH FERGUSON (UC DAVIS)
11:45	BICYCLE LENDING AND REPAIR PROGRAMS IN R1 UNIVERSITY MAKERSPACES AND LIBRARIES: SUSTAINABLE MOBILITY IN PRACTICE JESSICA SIMPSON (UNIVERSITY OF NEVADA, RENO)
JNCH	DEMOS • POSTERS • MAKERSPACE TOURS • SPONSORS
CRAI	FTING CARE, COMMUNITY, CONFIDENCE, AND CHANGE
CLAIRI	E DORSETT (CASE WESTERN UNIVERSITY)
1:30	BEYOND SKILLS: MAKERSPACE PARTICIPATION SUPPORTS WELL-BEING MATTHEW WETTERGREEN (RICE) • GLENN WALTERS & PAUL MIHAS (UNC CHAPEL HILL) • GORDON MAPES (NUNEZ C. COLLEGE)
1:45	MULTIDISCIPLINARY COLLABORATION IN MAKERSPACE: A CASE STUDY OF ENGINEERING AND NON-ENGINEERING STUDENTS CREATING ANTIMICROBIAL LEATHER TOOL BAG DIY KITS MABEL HO (HONG KONG POLYTECHNIC) • K.H. CHUNG (HONG KONG POLYTECHNIC)
2:00	IS MAKING A MAJOR INFLUENCE? • DIANA HAIDAR (CMU)
2:15	Cross-disciplinary student solutions overcoming makerspace operational challenges natalie chan (hong kong polytechnic) • ceci chui (hong kong polytechnic) • rico lam (hong kong polytechnic)
STER	2 • DEMO SESSION
ANEL	• STUDENTS AS MAKERS, MENTORS, & LEADERS • KOSA GOUCHER-LAMBERT (UC BERKELEY)
AI A	ND THE EMERGING FUTURE OF FABRICATION
CRAIG	FOREST (GEORGIA TECH)
4:15	AN OPEN-SOURCED, COMMUNITY-DRIVEN VOLUMETRIC ADDITIVE MANUFACTURING PRINTER AND POST-PROCESSOR WADDELL • TAYLOR • BROUDE • BOURGADE • DE LA TORRE • KOHYARNEJADFARD • HAO • MOTLEY • OSUND • PERCIVAL • VIDMAR (UC BERKELEY)
4:30	TOWARDS SAFER MAKERSPACES: CLASSIFYING NEFARIOUS 3D-PRINTABLE OBJECTS USING MACHINE LEARNING NEIL JOSHI • MARIE CHAU • DAVID CASSELBURY (JOHNS HOPKINS UNIVERSITY)
4:45	FEASIBILITY AND UTILITY OF AN AI ASSISTANT FOR THE GEORGIA TECH INVENTION STUDIO OJASW UPADHYAY (GEORGIA TECH) • AMIT JARIWALA (GEORGA TECH)
WALK 1	TO RECEPTION AT CAL MEMORIAL STADIUM / MAKERSPACE TOURS
′IEWS,	VIBES AND MAGIC MIXER @ CAL MEMORIAL STADIUM
AND	REW EVANS SPECIAL PERFORMANCE

8:00

**CLOSE OF DAY** 

8:00	MAKERSPACE TOURS	
8:15	BREAKFAST	
9:15	ISAM ANNOUNCEMENTS	
9:30	RADICAL COLLABORATION: FROM TOOLS TO TEAMS  ROBERT ZACHARIAS (CARNEGIE MELLON UNIVERSITY)  9:30 COLLAB: COLLABORATING WITH MULTIPLE MAKERSPACES ACROSS CAMPUS JENNIFER MULLIN *COLIN ZYSKOWSKI * RILEY MEEHAN * ANNIKA NELSON *DAVID LESSER *KARCHER MORRIS * MICHAEL YANG (UC SAN DIEGO)  9:45 YOU'LL HAVE MY AXE, MY BOW, AND MY LASER CUTTER: PARTNERSHIPS IMPROVE MAKERSPACE INTEGRATED DESIGN COURSE MAY LIM *YASEMIN FADIL *PRISCILLA TAN *HAMISH MCFARLANE *MELINDA WIMBORE (UNIVERSITY OF NEW SOUTH WALES)  10:00 NOBODY ASKED FOR THIS: GRASSROOTS COLLABORATION BETWEEN CAMPUS MAKERSPACES LEANNE NAY *NICOLE MILLER (INDIANA UNIVERSITY)  10:15 MENTORS, MAKERS, AND MINDSETS: COACHING IN MAKERSPACES SPARKING REFLECTIVE ENGINEERING DESIGN LEARNING MICAH LANDE (SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY)	
	10:30 RELATIONALITY BUILT THROUGH CRAFT PARTNERSHIPS: SUSTAINING A MAKER AND EQUITY RESEARCH COORDINATION NETWORK JILL CASTEK (UNIVERSITY OF ARIZONA) • NICO JANIK (WESTED) • OLIVIA CORNFIELD (BAY AREA DISCOVERY MUSEUM)	
10:45	BREAK • 15 MIN	
11:00 12:00 12:15	TEACH. TRAIN. TRANSFORM!  CODY UNGER (OLIN)  11:00 MAKERSPACE RETENTION AS A RESULT OF CURRICULAR INTEGRATION JUSTINE BOUDREAU * HANAN ANIS (UNIVERSITY OF OTTAWA)  11:15 DEVELOPMENT AND SCALING OF AN UNDERGRADUATE MANUFACTURING COURSE AT UC BERKELEY WITH DESIGN, TOLERANCING, & PROTOTYPING ASPECTS * TAYLOR * BOURAI * CROGH * DACHTLER * BECKMAN * GIN * GOTTBRATH * HOM * JAZAERI * JORDAN * LEE * MCORMICK * NEUFER * PARAGAS * PARSELL * SALAZAR * WADDELL (UC BERKELEY)  11:30 A NARRATIVE FRAMEWORK THAT EFFECTIVELY STRUCTURES MAKERSPACE CURRICULUM LILIANA SEOROR * GEORGIA DILLANE * ZOE ROSS (BARNARD COLLEGE)  11:45 IMPACT OF INTRODUCING TECHNICAL DESIGN ELEMENTS IN MAKERSPACE TRAININGS LAYAL BARAKAT * MARTIN CULPEPPER (MIT)  LUNCH * DEMOS * POSTERS * MAKERSPACE TOURS * SPONSORS  KARL D.D. WILLIS * SENIOR RESEARCH MANAGER, AUTODESK	
1:30	FORM FOLLOWS FLEXIBILITY: RETHINKING MAKERSPACE DESIGN  VICTORIA BILL (COLORADO SCHOOL OF MINES)  1:30 SIGNAGE, STRUCTURE, AND SURPRISE: DESIGNING MAKERSPACES FOR FIRST-TIME ENGAGEMENT MAGGIE MELO (UNC CHAPEL HILL)  1:45 LOWERING BARRIERS: INCLUSIVE MAKERSPACE STRATEGIES AT JACOBS HALL JOEY GOTTBRATH • JANREY JAVIER • NICOLE PANDITI (UC BERKELEY)  2:00 ARCHITECTURAL STRATEGIES FOR ADAPTATION IN ACADEMIC MAKERSPACES JOSHUA KELLER (BOHLIN CYWINSKI JACKSON)	
2:15 3:15	PROFESSOR LEAH BUECHLEY • CLOSING KEYNOTE	

AWARDS & CLOSING REMARKS

ONWARD TO ISAM 2026!

4:15

5:00

### THANK YOU TO OUR SPONSORS





















### SYMPOSIUM INFORMATION

**Papers Posters Demos** Schedule



linktr.ee/isam2025

Map Voting **Discord Community** and more!

Wi-Fi Info

Berkeley Visitor, no password

Restrooms

2nd, 4th, & 5th Floors

**Quiet Space** 

5th Floor Tilden Patio

#ISAM2025



# ISAM 29 @ UC Berkeley

UC Berkeley makerspaces / labs / studios open expressly for tours for ISAM 2025 attendees

