



2022

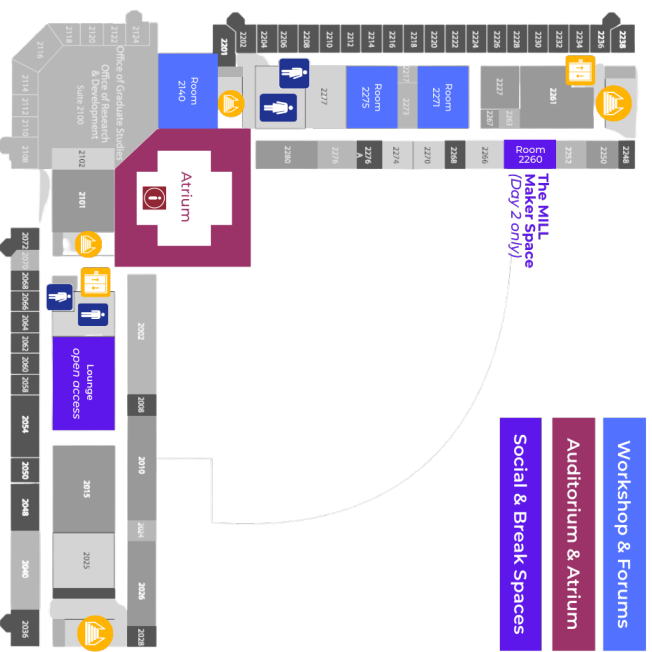
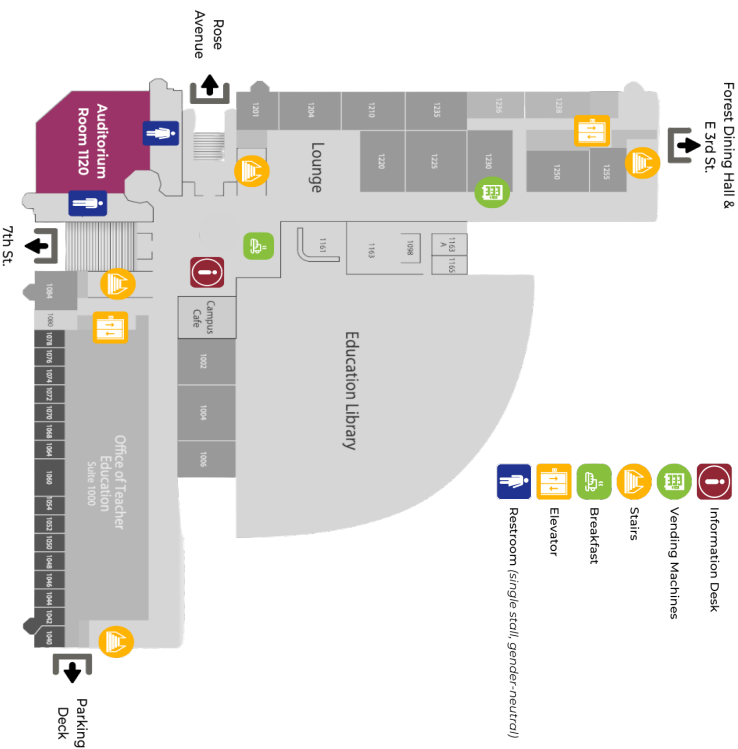
LSGSC

*The New Normal:
Views from the Apocalypse*

HOSTED BY

INDIANA UNIVERSITY - BLOOMINGTON

Forest Dining Hall &
E 3rd St.



WELCOME TO THE 7TH ANNUAL LEARNING SCIENCES GRADUATE STUDENT CONFERENCE

A LETTER FROM CONFERENCE CHAIR, XTINA STISO

Hey Folks!

Welcome to LSGSC 2022! The past few years have been... weird? rough? a seemingly-never-ending slog through the swamp of existential uncertainty? Something like that. The feeling that I get when talking with people is that folks are tired, folks are raw, and with this conference I wanted to take a stab at acknowledging all of this. Thus, we created:

The New Normal: Views from the Apocalypse

LSGSC was the first education conference I attended and the unique vibe of it has always been something that resonated with me. This conference is about community. It's not about 'being professional' or showcasing yourself as a researcher - we have a lot of conferences for that already. In my eyes, LSGSC is about being a grad student, a human, in this weird era of human history and sharing that experience with other humans who happen to be graduate students. So, we took some risks this year. We did some non-traditional stuff. Some of it might work! If it does, take it back with you, spread the word.

We are the future of this field; now is our chance to define what it is and can be! So, with that, please, enjoy LSGSC 2022.

Xtina Stiso |||||

2022 Conference Chair

KEYNOTE SPEAKERS



Cindy Hmelo-Silver

Indiana University - Bloomington

Distinguished Professor of Learning Sciences

Dr. Cindy Hmelo-Silver is a **Distinguished Professor of Learning Sciences at Indiana University** and the **Director of the Center for Research on Learning and Technology**.

She focuses on how people learn about complex phenomena and how technology can help support that learning. As part of this work, she studies problem-based learning, collaborative knowledge construction, and computer supported collaborative learning. She studies the role of technology to support social knowledge construction and collaborative learning and problem-solving.

Megan Bang

Northwestern University

Professor of Learning Sciences & Psychology

Dr. Megan Bang (Ojibwe and Italian descent) is a **Professor of the Learning Sciences at Northwestern University** and is currently serving as the **Director of the Center for Native American and Indigenous Research**. Dr. Bang studies foundational dynamics of culture, learning, and development across the life course particularly with respect to the natural world. She has been especially interested in knowledge organization, reasoning, and decision-making about complex socio-ecological systems and their intersections with identity, cultural variation, history and power.



PANELISTS



DR. DAY GREENBERG

Dr. Day Greenberg joins **Indiana University's School of Education as an Assistant Professor of Learning Sciences** in the Department of Instructional Systems Technology this year. Dr. Greenberg researches justice-oriented youth learning and development in STEM outside of school, with a particular focus on museums and science centers, community organizations, summer programs, and youth media. Her approaches to research centers design-based, critical ethnographic,

and participatory approaches and methods. They develop methods and approaches to study life, learning, and development outside of school. Ongoing projects are grounded in the learning sciences, critical theory, and sociocultural perspectives on youth development informed by youth expertise on what structures support pathways to desired futures.

DR. GAYITHRI JAYATHIRTA

Gayithri Jayathirtha is a **Computing Innovation Fellow at the University of Oregon, Eugene (USA)**, where she works with computing teachers to think about and develop critical computing materials. She graduated from the University of Pennsylvania with a Ph.D. in Learning Sciences, concentrating on K-12 computing education. Prior to pursuing her doctoral program, she earned her master's degree in Learning Sciences and Technologies from the University of Pennsylvania and her undergraduate degree in Computer Science Engineering from Bangalore University, Bangalore (India) and was a K-12 math teacher and teacher workshop facilitator in India for six years before starting her graduate studies.



DR. VICTOR LEE

Victor R. Lee is an **Associate Professor in the Graduate School of Education at Stanford University**. Through his research, he asks what STEM knowledge, tools, and practices are important to know in order to enable active participation and critical engagement with our increasingly digitally-infused lives. Currently, this work involves researching and designing experiences for K-12 teaching and learning about data - often through

a "quantified self" perspective, documenting and supporting the development of computational thinking in elementary school classrooms, and analyzing and supporting maker education in out-of-school settings.



DAY 1 SCHEDULE

8am - 9 am	<i>Auditorium</i>	Breakfast & Opening Ceremonies
9am - 11am	<i>Auditorium</i>	Opening Keynote: Cindy Hmelo-Silver
11am - 1pm		LUNCH
	<i>Room 2140</i>	A CharclUterie: Open House Demo of IU's Technologies and Projects
1pm - 3pm	<i>Auditorium</i>	Faculty Panel
3pm - 4pm	<i>Room 2140</i>	What Could Open Science look like in Interaction Analysis? A Conversation on Transparency, Reproducibility, and Ethics
	<i>Room 2275</i>	No Such Thing as Universal Design? Putting Multimodal and Inclusive Design Theory into Practice
3pm - 6pm	<i>Atrium</i>	Poster Session 1
4pm - 5pm	<i>Room 2140</i>	Openness and Uncertainty: A Forum on the Psychology of Science
	<i>Room 2275</i>	An Analysis of Water In Avengers: Endgame
5pm - 6pm	<i>Room 2140</i>	Exploring Teachers Sensemaking to Equity Analytics in Science Classrooms
	<i>Room 2275</i>	Dementia Friends Training
6pm - 9pm	<i>Wonderlab 308 W 4th St</i>	WonderLab Romp...*at night*

DAY 2 SCHEDULE

8am - 11 am	<i>Atrium</i>	Poster Session 2
9am - 10am	<i>Room 2140</i>	Distributive Cognition and Dementia: What Support Strategies the Learning Sciences can Bring to the Table
10am - 11am	<i>Room 2140</i>	Switch Mode: Scaffolding the Block-to-Text Transition in an Introductory Programming Environment
	<i>Room 2275</i>	Positionality Matters: Diversifying Research Teams Can Affect Data Analyses
11am - 1pm		LUNCH
	<i>Room 2260</i>	Vinyls, Vectors, & Vibes: MILL Maker Space Open House
4pm - 5pm	<i>Room 2140</i>	Indigenous Pedagogies in the Context of Ancestral Language Teaching & Learning
	<i>Room 2275</i>	A Design Case Study: Sustainable Online Learning Community Through Treddi in a College Course
3pm - 4pm	<i>Room 2275</i>	Mathematical Modeling of Social & Environmental Issues in the College Algebra Classroom
	<i>Room 2140</i>	Perspectives on Play Across the Learning Sciences: Discussing the Past, Present, & Future Aims of Play & Learning
3pm - 5pm	<i>Auditorium</i>	Closing Keynote: Megan Bang

WALKABLE FOOD OPTIONS

FOOD & DRINK WITHIN WALKING DISTANCE TO SCHOOL OF ED

Ami Sushi (9 minute walk, 0.4 miles)
Mother Bear's Pizza (9 minute walk, 0.5 miles)
Sunny Poke & Tea (9 minute walk, 0.5 miles)
Forest Eatery Dining (6 minute walk, 0.3 miles)
Jimmy John's (8 minute walk, 0.4 miles)

COFFEE / TEA NEARBY

Starbucks * (14 minutes, 0.7 miles)
Sugar & Spice Bakery * (14 minutes, 0.7 miles)
Soma (10 minute walk, 0.5 miles)
Inkwell (18 minute walk, 0.9 miles)

LUNCH FOOD A BIT FARTHER OUT, BUT WORTH THE WALK

Lantern (14 minutes, 0.7 miles) *
The Mix (14 minutes, 0.7 miles) *
Quarry Pie Co. (14 minutes, 0.7 miles) *
Whitfield Grill (14 minutes, 0.7 miles) *
Taste of India (22 minute walk, 1.1 miles) - Certified Halal
Little Tibet (21 minute walk, 1.1 miles)
Siam House (20 minute walk, 1 mile)
Chow Bar (20 minute walk, 1 mile)
Rush Hour Station (22 minutes, 1.1 miles)
Turkuaz Cafe (24 minutes, 1.2 miles) - Partial Halal Menu

OTHER RESTAURANT & BAR RECS FOR THE WEEKEND

The Tap (27 minute walk, 1.3 miles)
Smokeworks BBQ (28 minute walk, 1.4 miles)
Switchyard Brewing Co. (28 minute walk, 1.4 miles)
Friendly Beasts Cider Co. (34 minute walk, 1.7 miles)

DESSERT SPOTS

Chocolate Moose (14 minutes, 0.7 miles) *
Chocolate Moose (30 minute walk, 1.5 miles)
Hartzell's Ice Cream (20 minute walk, 1 mile)
Parlor Doughnuts (21 minute walk, 1.1 miles)

* are located in the IMU & may have odd hours; check online for details
www.dining.indiana.edu/dining-hours/

STUDENT AUTHORS

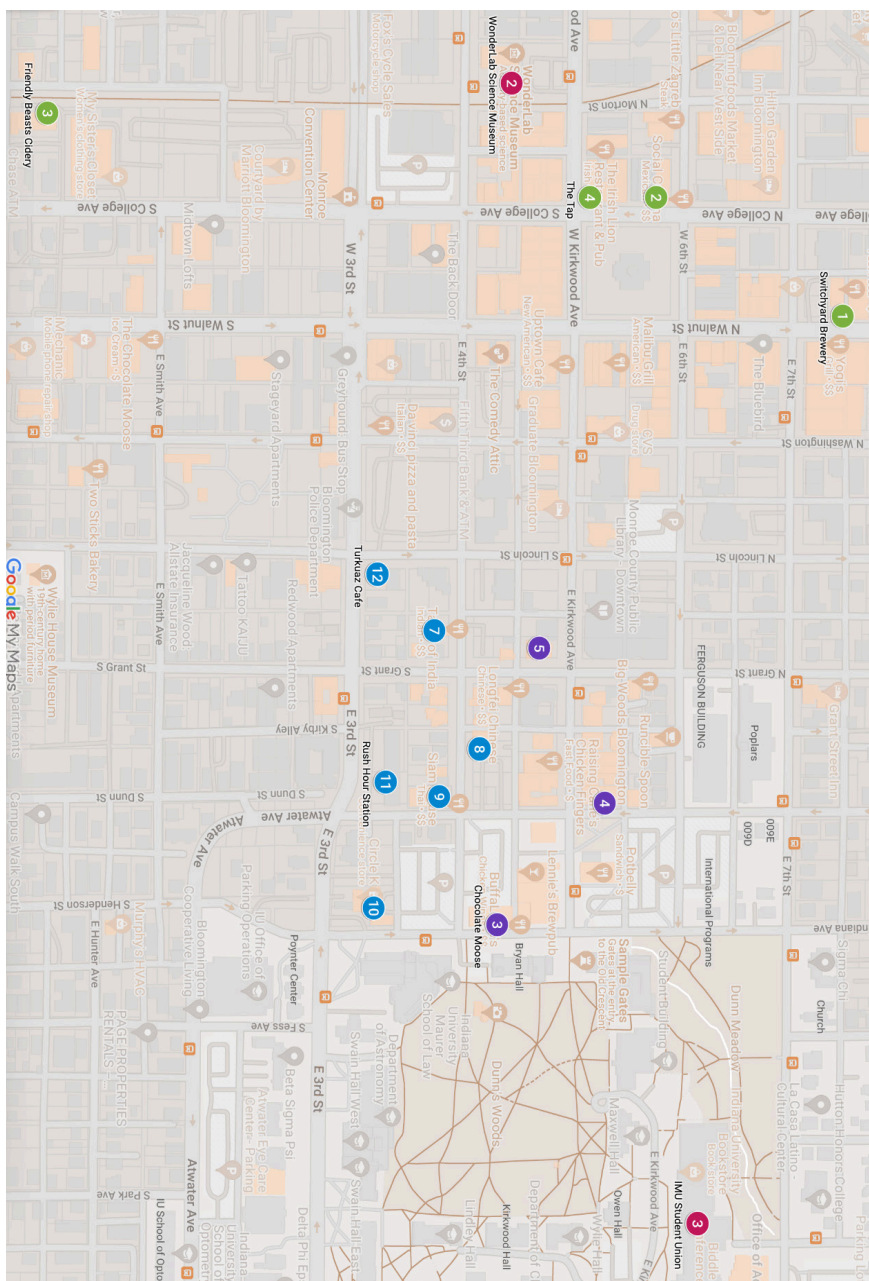
WORKSHOP & FORUM PRESENTERS

Ali R Blake	Megan Humburg
Ali Raza	Mengxi Zhou
Amber Armstrong	Morgan Vickery
Ashley S Hufnagle	Rosanne Luu
Candice Love and	Sarah Lee
Cheryl Ferguson	Selena Steinberg
Fuyi Feng	Sierra Gilliam
Hanall Sung	Tamara Sumner
Huiyu Lin	V.N. Vimal Rao
Indrani Dey	Xintian Tu
Maria Eloisa Nuguid	Yamileth Salinas Del Val
Marvin Evans	Yuhan Lin
Matthew Grondin	Zach Ryan
Megan Goeke	Zack Carpenter

POSTER AUTHORS

Alexis Papak	Karen Villegas	Sarah Porter
Anna Philips	Keisha Varma	Sean Kim
Annabel Stoler	Lillyanna Faimon	Selena Steinberg
Betsy Beckert	Marisa Peczuh	Taylor Torres
Brian Gravel	Mengxi Zhou	Timothy Atherton
Chris Cruz Gonzalez	Mia Shaw	Tessaly Jen
Elly Kang	Mutiara Syifa	Tripp Harris
Emily Holm Tobin	Nidhi Nasiar	Victoria Delaney
Emmanuel Nti-Asante	Patricia Cristina Fuentes Acevedo	Virginia Clark
Erin Lane	Qianhui Liu	Wade Berger
Ezra Gouvea	Regina Lisinker	Xintian Tu
Heather Killen	Ronni Hayden	Xuesong Cang
Indrani Dey	Rosanne Luu	Yilang Zhao
Jesslyn Valerie	Samuel Bullard	Zack Carpenter
Joanne Choi	Samuel Tobler	~
Juan Pinto	Santiago Ojeda Ramirez	

DOWNTOWN BLOOMINGTON



EAST SIDE OF CAMPUS & SCHOOL OF ED



Points of Interest

- 1 School of Ed
- 2 WonderLab Science Museum
- 3 IMU Student Union

Lunch Food

- 1 Bloom Burger Food Truck
- 2 Restaurant Ami
- 3 Mother Bear's Pizza
- 4 Sunny Poke & Tea
- 5 Forest Eatery
- 6 Jimmy John's
- 7 Taste of India
- 8 Little Tibet
- 9 Siam House
- 10 Chow Bar
- 11 Rush Hour Station
- 12 Turkuaz Cafe
- 13 Bloomington Bagel Company
- 14 Dragon Express LLC

Coffee, Tea, & Desserts

- 1 Soma
- 2 Inkwell
- 3 Chocolate Moose
- 4 Hartzell's Ice Cream
- 5 Parlor Doughnuts

Bars, Breweries, etc.

- 1 Switchyard Brewery
- 2 SmokeWorks
- 3 Friendly Beasts Cidery
- 4 The Tap

ACKNOWLEDGEMENTS

FACULTY CONTRIBUTORS

Keynotes:

Dr. Cindy Hmelo-Silver

Dr. Megan Bang

Panelists:

Dr. Day Greenberg

Dr. Gayithri Jayathirtha

Dr. Victor Lee

IU Faculty:

Dr. Joshua Danish

Dr. Dan Hickey

ORGANIZERS

Alejandra Frausto
Canan Ece Türkmen
Cassandra Olmstead
Chris Cruz-Gonzalez

Daeun Hong
Eugene Cox
Fangli Xia

Jinzhi Zhou
Hanall Sung
Joshua Quick
Juan Pinto

Kelsey Schenck
Lisa Siciliano
Megan Humburg
Megan Goeke
Mengxi Zhou
Mia Shaw
Morgan Vickery
Srijita Chakraborty
Xtina Stiso
Yuhan Lin
Zach Ryan

SPECIAL THANKS

Center for Research on Learning & Technology
Lori Winks, Andrea Duncan, & Ed Gentry

WonderLab Science Museum
Bloomington Bagel Co.
Pinoy Garden Cafe
Bloom Burger
Switchyard Brewing Co.

Designed by Morgan Vickery