SERS 2023 ORGANIZING COMMITTEE



Dr. Gayle A. Buck Faculty advisor

Student Committee Members

Jingyun (Joey) Wu Doctoral Student





Taiwo Ogundapo Doctoral Student

Arya Karumanthra Doctoral Student





Esther Kataate Namakula Doctoral Student

Tajinder Saroya Doctoral Student





SCAN TO RSVP

CONTACT

201 N. Rose Ave, Bloomington, Indiana 47405

SERS 2023

Science Education Research Symposium 2023

ABOUT SERS

The 2023 Science Education Research Symposium is a free, student-run symposium. We offer graduate students a safe venue to gain experience in presenting, organizing, and attending professional conferences. This symposium is the first Science Education Symposium held since the occurrence of COVID-19 pandemic.

This year's symposium will be held in-person and virtually on April 6, 2023. This year's theme is: Towards a more Robust and Equitable Science Education.

ZOOM-IN OPTION

https://iu.zoom.us/j/8211803200



SERS 2023 **JOB PANEL** Science Education Research Symposium

2:30-3:30

Alex Gerber Science Ed Alumni





Tulana Ariyaratne Ph.D. Candidate

Jessica Rae McClain Ph.D. Candidate

SCHEDULE

8:45-9:10 Atrium	Refreshments & Coffee
9:10-10:10 Room 2140 Individual	A Meta-synthesis of Research in Science Education in K-12 Settings in Refugee Context: Implications for Advancing Equitable Science Teaching and Learning <i>Shukufe Rahman</i> Transgender and Minority Gender Students' Sense of Belongingness in Higher Education: Exploring the Difference Between STEM and non-STEM Majors
Presentation	A Meta-synthesis Study to Analyze Linguistic and Psychological Needs of Refugee Students in Science Education Settings. Arya Karumanthra

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	Designing an observational tool based on core practices for the secondary science early field experience <i>Kraig Kitts</i>
9:10-10:10 Room 2100 Individual Presentation	Integrating NOS and Peer Critique in Teaching Open Scientific Inquiry in Environmental Science: Action Research Esther Kataate Namakula, Nader El Ahmadie, Valarie L. Akerson Using Indigenous Knowledge To Enhance Students' Understanding Of Environmental Topics And Promote Global And Equitable Learning In The Classroom Nader El Ahmadie
	Using Photovoice to Promote Preservice Teachers' Socioscientific Reasoning Skills <i>Conghui Liu</i>
10:20-11:20 Room 2140 Individual Presentation	Providing Support to Preservice Science Teachers through Learning Communities - Taiwo Ogundapo, Meredith Park Rogers
	Examining Pre-Service Teachers' Experiences in Facilitating Argumentation-focused Discussions within the Virtual Teaching Simulator Kady Lane, Taiwo Jumoke Ogundapo, Arya Karumanthra, Esther Kataate Namakula, Jingyun Wu, & Meredith Park Rogers
10:20-11:20	Investigating Secondary Preservice and Inservice Science Teachers' Epistemological Knowledge about Models <i>Qiu Zhong</i>
Room 2100 Individual Presentation	Using text network mapping to analyze differences in STEM integration conceptualizations among STEM disciplines Spencer Perry
	Emerging themes in post-pandemic instructional improvements in Chemistry Education Tulana Ariyaratne

	Too little or Too Much or Not There? A Portrait of science teaching within the Rohingya Refugee camps in Bangladesh Shukufe Rahman
	Embodied learning approach in science education Tajinder Saroya
11:30- 12:30 Roundtable Session	Adding Scientists' Voice: Developing Secondary Science Teachers' Socioscientific Reasoning in a Professional Development Program Conghui Liu
Atrium	Facilitating Conceptual Change in Science Teacher Education: A Refined Cognitive Conflict Approach Joey Wu
	The role of orientations in the development of physics teachers' PCK and the impact they have on students' outcomes. A meta-analysis Esther Kataate Namakula
12:30-1:30 Atrium	Lunch
Atrium 1:20-2:15 Room 2140	Lunch College Students' Views of the Nature of Science Stephanie Marin Rothman Considerations on the use of ecological
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