



# Welcome to the Innovative Creativity Research Community @ KSU Office of Research

Connect with like-minded thinkers to shape your research, creative inquiry and scholarship. Celebrate the fusion of imagination and intellect.

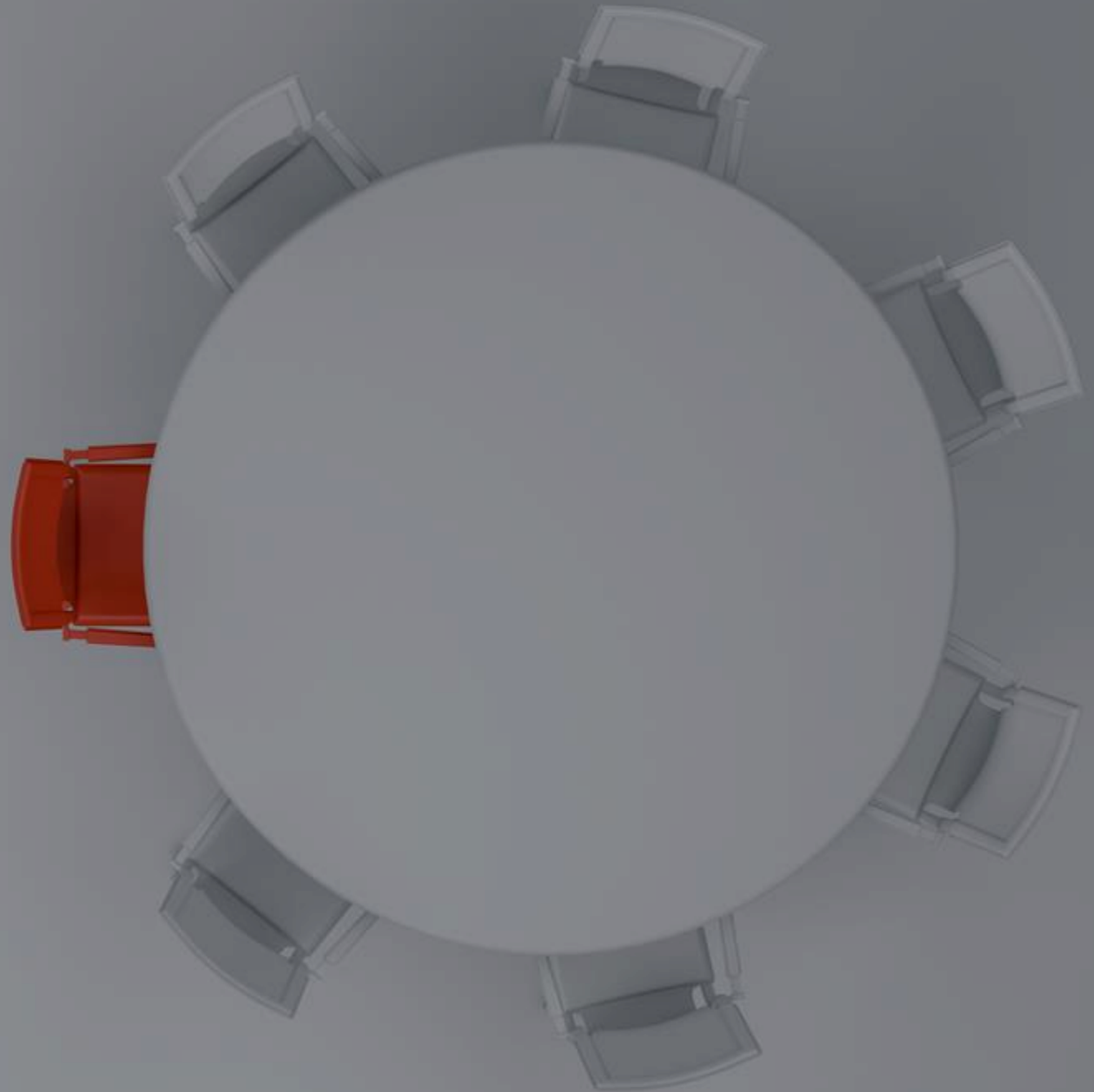
Engage with thought leaders, scholars, and artists who are pushing the envelope of conventional wisdom, forging new connections, and sparking conversations that bridge the gap between tradition and innovation.

Delve into the vibrant world of interdisciplinary research. Explore how innovative thinking fuels groundbreaking expression and knowledge creation.

# Nice to meet you!

Please provide a simple introduction in the chat.

- Name & Position
- School/Unit
- Your areas of research & interest





Michael James Carroll  
Associate Professor of Architecture  
College of Architecture and  
Construction Management



Andrea Knowlton  
Associate Professor of Dance  
College of Arts



Dr. Victoria LaGrange Assistant  
Professor of English Bagwell  
College of Education

## INNOVATIVE CREATIVITY TEAM LEADERS



Creativity Fuels Innovation

## INNOVATIVE CREATIVITY RESEARCH COMMUNITY

Our team facilitates research relationships for individuals who are interested in forging new paths through outside of the box thinking.

While creativity involves generating original ideas and conceiving something that is new, innovation is the act of putting something into practice and implementing ideas to create value.

Creativity is thinking up the idea of flying in space, innovation is building the rocket. Innovation and creativity go hand in hand.



# Creating Artificially Intelligent Dance Software

## CREATIVITY

Humans engage in improvisational interactions to co-create an embodied experience.

## INNOVATION

These experiences are analyzed and applied to interactions with artificial intelligence.



# Future Applications

- Dance & Sports Training & Assessment
- Choreography & Creativity
- Physical Therapy & Recovery
- Medical & Clinical Settings
- Gaming & Avatar Platforms
- Interactive/Embodied Software





## Atelier BUILD, Montreal, Canada



## Map of Montreal: Series of Urban Infill Projects



Michael Carroll is a registered Canadian architect and co-founder of Atelier BUILD. He was awarded the Canadian Professional Prix de Rome of Architecture in 2004.



Current Project: the KSU Mini Pavilion consists of an inter-disciplinary team that includes faculty from computer engineering, construction management and architecture with a focus on STEM and its intersection with elementary school education.

Dr. Billy Kihei, CO-PI1



Professor Carroll is also engaged with research on mycelium (mushrooms) and its architectural application with Chris Cornelison, Ph.D.

In Fall 2023, he led a fifth-year undergraduate Focus Studio on the topic and produced an exhibition for the Atlanta Design Festival in October 2023.





Digital Fabrication Lab, CACM



The Game Narrative Lab is a research and development space that focuses on video game narratives and users' experiences.

Victoria Lagrange, Director



MAT\_LAB at KSU a materials library, exhibition, and reference library.

Michael Carroll, Founder and Director



Woodshop + CNC Machines

**INNOVATIVE CREATIVITY: USING EXISTING KSU FACILITIES - OPTIMIZATION**

A hand holding a glowing lightbulb against a yellow background. The lightbulb is illuminated, casting a warm glow. The hand is positioned as if presenting the lightbulb. The background is a solid, vibrant yellow.

INNOVATIVE  
CREATIVITY  
COLLABORATIVE  
OPPORTUNITIES  
THINKING  
OUTSIDE THE  
BOX

We believe that innovative partnerships create meaningful outcomes

- Human Creativity & Artificial Intelligence (Interactive Dance Software)
- Architecture & Biology (Mycelium Research)
- Performing Arts & Health (Community Partnerships)
- Visualization & Storytelling (Game Narrative Lab)
- Software & Environments  
(Embedded Sensors @ KSU Pavilion)
- Design Speculation: Extrapolations of existing technologies to imagine future applications. (MIT Media Lab, 3-D Printing Biomaterials)

# INNOVATIVE CREATIVITY: SUPPORT AND FUNDING

We have the freedom in our research to explore all forms of output, without being tied to traditional models. Our outcomes are physical objects, experiences, programs, partnerships, works of art, and more!

- National Endowment for the Arts
- GA Council for the Arts
- Corporate Foundations (Verizon, Coca Cola, etc.)
- Private Arts Funding (Graham Foundation)
- American Institute of Architects (Project Funding)
- National Science Foundation
- National Institutes for Health





# INNOVATIVE CREATIVITY BENEFITS

- Support from Innovative Creativity Champions / Office of Research
- Structure individual research agendas and expand to include multidisciplinary collaborations @ KSU
- Ability to source funding from potential seed grant
- Participation in Innovative Creativity Launch Event after Spring Break



# INNOVATIVE CREATIVITY SEED GRANT

We are currently developing a proposal for a Seed Grant to support our research community. This grant would be open to active members of the group and serve the purpose of launching innovative ideas and collaborations with start-up funding.

These funds can be instrumental in concept exploration and development toward seeking much larger grants and opportunities in the future.



# Imagining research: creative innovation

## LAUNCH EVENT

In person, produced event to showcase existing work

Celebrate the launch of Innovative Creativity Research Group, introduce our community and share our values and goals.

Launch of our webpage.

Co-imagine the future of our thrust area



## Breakout room instructions: (15 Mins)

When you arrive to your breakout room, be sure your camera and microphone are turned on.

Briefly reintroduce yourself and reiterate your research interests.

### COLLABORATIVE EXERCISE

Co-imagine a project that utilizes everyone in the group's expertise.

- Find the intersections hidden within your areas of expertise.
- Be flexible as you imagine how your skills might serve a larger collaboration.

Capture a few sentences describing what you brainstormed. You'll have an opportunity to present your ideas shortly.

# Imagining Research





# NEXT STEPS

We'll be following up with an email to all participants.

We are here to support your research, make introductions, and more.

We hope to identify groups/ teams interested in taking next steps in their research.

Let's open the floor to questions.



# Creative Innovation: Mission

- Encourage and support interdisciplinary relationships and research.
- Create space for meaningful collaborative research across colleges and units.
- Provide new perspectives to reimagine faculty's unique interests and expertise.
- Elevate and direct the thrust of faculty research to align with support and funding.
- Provide introduction and mentorship to collaborative pairs and groups to ignite creative innovative.
- Offer workshops and services to elevate faculty skills in grantseeking and grantwriting.
- Identify opportunities for undergraduate involvement in faculty's creative research.
- Seek strategic partnerships that align with Innovative Creativity, and KSU's R2 goals.
- Build multi-faceted community relationships with aligned industries, non-profits, and organizations.