



ORCA SYMPOSIUM  
APRIL 4, 2024



# AGENDA

- INTRODUCTION
- PANEL ON ARTIFICIAL INTELLIGENCE AND SCHOLARSHIP
- POSTER AND ROUNDTABLE PRESENTATIONS



## PANEL MEMBERS

Jennifer Fuentes, Online Learning  
Librarian, Library

Azadeh Izadi, Assistant Professor,  
Department of Computer Science and  
Engineering Technology

Greg Dement, Director, Center for  
Teaching & Learning Excellence (CTLE)

John Rountree, Assistant Professor,  
Department of Arts & Communication

Jerry Johnson, Professor, Department of  
Natural Sciences

# COMMON TERMS

- 1. AI (Artificial Intelligence):** AI encompasses the development of intelligent machines capable of performing tasks that typically require human intelligence.
- 2. Algorithm:** Algorithms are step-by-step instructions or rules that guide AI systems in solving specific problems or making decisions.
- 3. Chatbot:** A chatbot is an AI-powered program designed to simulate human conversation and assist users.
- 4. Generative AI:** artificial intelligence capable of **generating text, images, videos, or other data** using **generative models**. These models learn patterns and structures from their input training data and then create new data with similar characteristics.
- 5. Hallucination:** a situation where a **generative AI model** produces outputs that are nonsensical, misleading, or altogether inaccurate. These hallucinations occur when the AI perceives patterns or objects that are **nonexistent or imperceptible** to human observers.
- 6. Large Language Models (LLM):** models that are trained on a very large amount of data making them capable of understanding and generating natural language and other types of content for a wide range of tasks. (Chat GPT)

**\*\*\* Definitions compiled using Microsoft CoPilot**

# QUESTIONS FOR THE PANEL





USES AND OPPORTUNITIES  
WITH AI IN  
SCHOLARSHIP/RESEARCH FOR  
FACULTY AND STUDENTS

# 1. HOW CAN AI BE USED TO ENHANCE THE RESEARCH PROCESS?



## 2. HOW HAS AI IMPACTED RESEARCH METHODOLOGIES?





3. HOW CAN WE SUPPORT  
FACULTY AND STUDENTS TO  
USE AI ETHICALLY AND  
PRODUCTIVELY IN RESEARCH?



4. HOW DO YOU SEE AI  
SHAPING THE FUTURE OF  
SCHOLARLY COMMUNICATION  
AND DISSEMINATION OF  
RESEARCH FINDINGS?





ISSUES AND CONCERNS WITH AI  
IN THE CONTEXT OF  
SCHOLARSHIP/RESEARCH

1. WHAT ARE SOME OF THE  
MAJOR ETHICAL CONCERNS?



2. WHAT ARE SOME  
LIMITATIONS OF USING AI IN  
THE RESEARCH ENTERPRISE?



3. WHAT GUIDANCE ABOUT THE USE OF AI IN RESEARCH ARE WE GETTING FROM PROFESSIONAL ORGANIZATIONS OR EDITORS?



4. WHAT ARE SOME OF THE  
POTENTIAL CHALLENGES AS AI  
BECOMES MORE INTEGRATED  
INTO THE RESEARCH PROCESS





QUESTIONS FOR THE PANEL?



## Poster Presentations

- ***Exploratory Study with College Students and their Experiences with Familial Deportation or Incarceration***  
Presenter: Yajaira Ceciliano
- ***The Impact of Open Educational Resources on Student Achievement: A Meta-Analysis***  
Presenter: Kit Cho
- ***Effects of Antiproliferative Components from Plant Extracts on Breast Cancer Cells***  
Presenter: Jacob Theruvathu
- ***Developing Stereological and Machine Learning Methods to Characterize the Spatiotemporal Metabolic Profiles of the Neuroretina***  
Presenter: Elda Rueda

## Roundtable Presentations

- ***ORCA Proposals – A Session with two ORCA Committee Chairs***  
Presenters: Godwin Agboka and John Rountree
- ***Applying for External Funding with ORSP***  
Presenters: Denise Burgen, Youn-Sha Chan, and Kenneth Johnson
- ***Investigating Cytotoxic Compounds for Their Potential to Inhibit Metastasis and Angiogenesis***  
Presenter: Rachna Sadana
- ***The Strategic Value of Blockchain Technology in Marketing Supply Chains***  
Presenter: Steve Zhou
- ***Painting Pictures by Numbers: Edward Long's Political Economic Fantasy for Jamaica***  
Presenter: David Beck Ryden
- ***Taking Honor Seriously in Student Honor Codes***  
Presenter: Andrew Pavelich