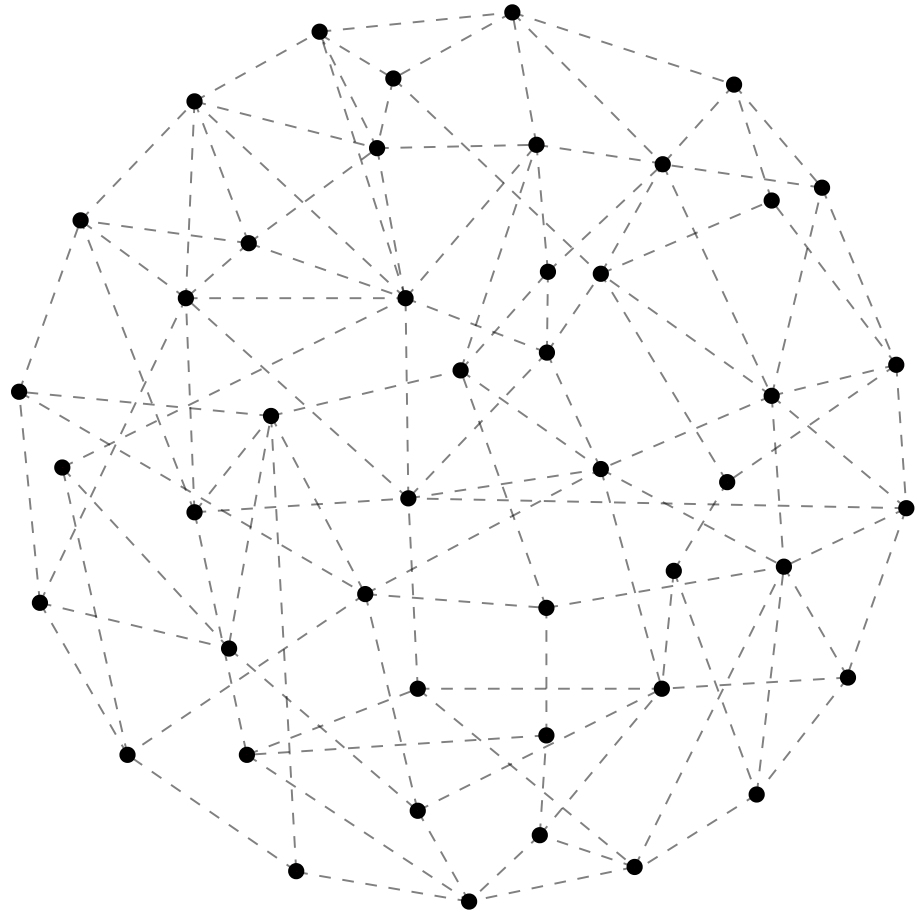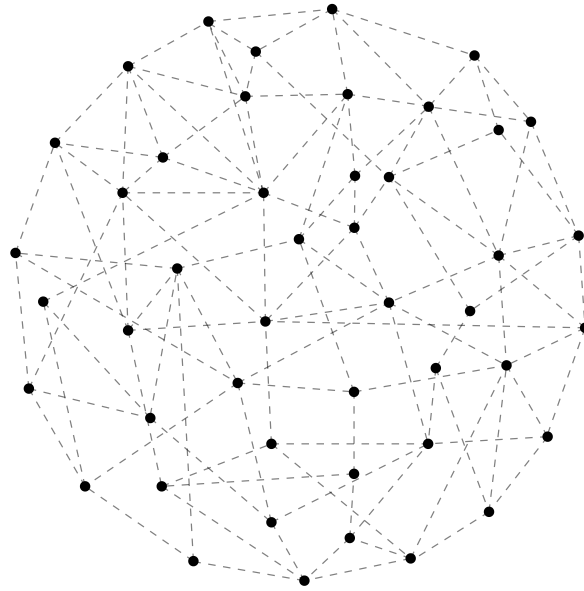# AI CONFERENCE

FEBRUARY 28 AND 29, 2024

FAIRMONT STATE UNIVERSITY™
Center for Teaching &
Learning Innovation

WELCOME

Welcome to the CTLI's inaugural conference! We are pleased to offer cutting-edge, engaging, peer reviewed AI sessions presented by Fairmont State University faculty, staff, and students, and by colleagues external to the university.

Proposal Acceptance Process

Three reviewers, representing faculty and staff, reviewed proposals based on relevancy, abstract/description, and potential benefit to audience. **The review process was double blind.** To be accepted, two of the three reviewers were required to accept the proposal without revisions. If this was not met, the proposal was either accepted with revisions or not accepted.

Acknowledgement

This conference would not be possible without the support and effort of so many individuals. While not an exhaustive list, the CTLI would like to especially thank **the peer reviewers, all who submitted proposals, Jeff Miller, Trish DeNoon, Dr. Tim Oxley, Dr. Dianna Phillips, Dr. Billy Stone, Jennie Rowand, Dr. Candice Moench, Selina Spiker, and the Student Government Association.**

IT'S NOT IN THE SYLLABUS:
Adapting Your Classroom to Include Ethical and Helpful AI

Keynote Speaker
AI Conference

1:00 p.m. February 28, 2024
Falcon Center Conference Rooms 301, 302, and 303

PRESENTED BY

M.E. Yancosek-Gamble
Associate Professor of Business
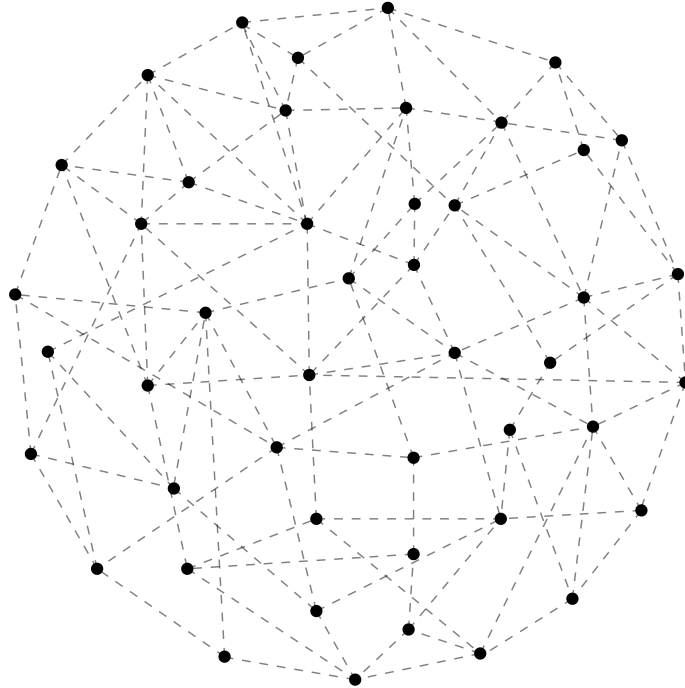Business Communications
College of Business & Aviation

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DAY 1: FEBRUARY 28, 2024
Sessions at a Glance

12:00 PM - 1:00 PM	Registration and Beverages (Foyer) [Note: Registration is open from 12:00 p.m. - 3:00 p.m.] Poster Session: Implementing Virtual Reality Simulations to Support Students (Foyer)
1:00 PM - 1:50 PM	Keynote Speaker: It's Not in The Syllabus: Adapting Your Classroom to Include Ethical and Helpful AI (Rooms 301, 302, and 303)
2:00 PM - 2:50 PM	Nursing in the Age of AI: Challenges and Opportunities in Healthcare and Education (Rooms 301) The Rise of the Arts and Humanities in the Age of AI (Room 302)
3:00 PM - 3:50 PM	Panel Discussion: What does Fairmont State think of AI? A Discussion with University Leaders (Room 301, 302, 303)

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DAY 2: FEBRUARY 29, 2024
Sessions at a Glance

8:00 AM - 9:00 AM	Coffee and Confections (Foyer) Registration (Foyer) [Registration is open from 8:00 a.m. - 3:00 p.m. Faculty and Staff: Please pick up your cafeteria lunch ticket when you register.]
9:00 AM – 9:50 AM	Panel Discussion: AI Utilization and Application in Healthcare Operations (Room 301) Vibe Check: How can you reach over 10,000 readers with the ubiquitous term paper assignment? Using Artificial Intelligence Tools for Experiential Learning (Grammarly, Zotero, and Wikipedia) to Assist Student Research (Room 302) Finding Inexpensive Computing Resources and Tools for your AI project (AWS) (Room 303)
10:00 AM - 10:50 AM	How to Empower Your Neurodivergent Students Using AI Technologies (Room 301) The Answers of (Tech) Giants: Large Language Models and Productivity Tools in Higher Ed (Room 302) Artificial Intelligence Technology and The Future of Medicine (Room 303)
11:00 AM - 11:50 AM	We Learn to Adapt: Teaching in the Age of Chat GPT (Room 301) The Evolution of Artificial Intelligence and the Rise of Large Language Models (Room 302)
12:00 PM - 1:00 PM	Lunch (Cafeteria) [Faculty and Staff: You will receive a lunch ticket when you register.]
1:00 PM - 1:50 PM	AI and Immediate Feedback for Student Learning (Room 301) Just around the corner: Advancing Careers with AI using Hiration Software for Student Success (Room 302)
2:00 PM - 2:50 PM	Automated Variable Selection for High Dimensional Data: A Practical Example in Individuals with ACL Reconstruction (Room 301) The Impact of AI on the Composition Classroom (Room 302)
3:00 PM - 3:50 PM	Dr. Strange Bedfellows: How I Learned To Stop Worrying And Love AI In Higher Education (Room 301) Harnessing the Power of AI in Higher Ed Administration (Room 302)

DAY 1: FEBRUARY 28, 2024

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12:00 PM - 1:00 PM
REGISTRATION AND BEVERAGES (FOYER)
[NOTE: REGISTRATION IS OPEN FROM 12:00 PM - 3:00 PM]

Poster Session: Implementing Virtual Reality Simulations to Support Students (Foyer)
Dr. Courtney Miller
Dr. Julie Reneau
Presenters will share how to implement virtual reality simulations as learning opportunities to support students. Presenters will share virtual reality simulation learning opportunities to include supporting students during practical application in their field as well as skills necessary to support the employment process.

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1:00 PM - 1:50 PM

KEYNOTE SPEAKER

It's Not in The Syllabus: Adapting Your Classroom to Include Ethical and Helpful AI (Rooms 301, 302, and 303)
M. E. Yancosek Gamble, Associate Professor, College of Business and Aviation
A new (Oct 2023) study finds that "over half of students use generative AI, while more than 75 percent of faculty members do not regularly use the technology."
It is said that in the fall of 2023, more than a third (35 percent) of faculty members use AI tools to teach students how to effectively use generative AI writing tools, and nearly one-third (29 percent) are using the tools to create more engaging, in-class activities. What does that look like at Fairmont State? For this keynote, I (will) survey FSU faculty to see what they are doing and how they feel about using AI in their classrooms. I will present examples of what others are doing (and presenting at the AI conference) and ask faculty to answer some philosophical questions about AI education.

DAY 1: FEBRUARY 28, 2024

2:00 PM - 2:50 PM

Nursing in the Age of AI: Challenges and Opportunities in Healthcare and Education (Rooms 301)
Lisa Eades MSN, RN, CNE
Denice Kirchoff EdD, RN CNE
Kara Burgard MSN, RN

The integration of artificial intelligence (AI) into nursing education has brought about a significant change in the way nursing students are trained and prepared for their professional roles. Despite being a relatively new field, AI has a significant impact on nursing education, affecting both the classroom and clinical settings. This presentation explores the various ways in which AI is used in nursing education, highlighting its historical background and current and future applications.

In the healthcare sector, nursing has always been at the forefront of adopting new technologies, including AI. This presentation discusses the different ways in which AI is integrated into nursing curricula, such as through virtual reality, ChatGPT, case studies, and simulations. Buchanan et al. (2021) emphasize the importance of understanding AI's influence on nursing education, prompting educators to rethink and improve their teaching methods.

This presentation aims to provide an overview of the advantages and disadvantages associated with integrating AI into nursing education. By effectively combining technology and pedagogy, nursing educators can use AI to improve the learning experience, prepare students for real-world challenges, and contribute to the development of nursing practice. This exploration highlights the essential role of AI in shaping the future of nursing education and emphasizes the need for continued research and reflection in this field.

The Rise of the Arts and Humanities in the Age of AI (Room 302)
Elizabeth Wotring Nelson, Adjunct Coordinator, CTLI

The Arts and Humanities are going to be the future when AI starts to take over the logistics of our professional and personal lives. AI will absolutely affect the Arts in many ways (we've seen this in the recent SAG/AFTRA strikes in Hollywood), but the skills we develop in the Arts and Humanities will be the coveted skills we need to keep our humanity intact. Soon, we will be able to have AI create an entire syllabus with everything we need to teach the information we want our students to know, but AI can't tell us how to make our classrooms inviting and safe for our students. It can't give us a formula for understanding what our students need emotionally or socially. How do we look past our scarcity mindsets and get creative alongside AI instead of competing with it? If we are going to thrive in an age of AI, we need to understand what makes us human... What gives our lives meaning... What we have to live for. And you can find that in spades in the Arts and Humanities. And yet, these are the first programs we cut in all levels of educating our young people. How do we work together to begin to value the Arts and Humanities again to prepare for the future in Education and beyond?

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DAY 1: FEBRUARY 28, 2024

3:00 PM - 3:50 PM

What does Fairmont State think of AI? A Discussion with University Leaders (Room 301, 302, 303)
Heath A. Howard/Alex Elliot - Panel Moderators
President Michael Davis - Institutional Representative
Provost Office Rep
With the sudden explosion of popularity of large language models (LLMs), higher education is yet again faced with the question: how do we keep up? This question will be the center of the discussion between four university leaders of Fairmont State: Executive, Academic, Faculty, and Staff. After a brief presentation on large language models and an update on how they are being used in higher education, these four leaders will answer questions regarding how Fairmont State should invest in AI, what changes they expect for their colleagues, how Fairmont State should expect AI to change campus, and exchange ideas for collaboration between the three groups.

How the proposal is expected to benefit the audience: AI is such a popular topic right now, it has created anxiety and concern for some in higher education who believe their job may be replaced or reduced because of the capabilities of AI. This discussion will address some of those concerns, show how AI is meant to create collaboration, not replacement. Additionally, having the leaders speaking together may provide opportunity for ideas to be shared for future collaborations.

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DAY 2: FEBRUARY 29, 2024

8:00 AM - 8:50 AM

REGISTRATION AND COFFEE AND CONFECTIONS (FOYER)
[NOTE: REGISTRATION IS OPEN FROM 8:00 AM - 3:00 PM. FACULTY AND STAFF: PLEASE PICK UP YOUR CAFETERIA LUNCH TICKET WHEN YOU REGISTER.]

9:00 AM - 9:50 AM

Panel Discussion: AI Utilization and Application in Healthcare Operations (Room 301)
Dr. Raymond Alvarez (moderator, Value Based care)
Eric Pulice, Healthcare Management Assistant Professor (reimbursement)
Dr. Susan Smith (Quality and Safety; Clinical Analytics)
Dan Bazzoli, MHCM grad student and Nursing Director WVU Medicine (Continuity of care, Clinical Operations)
AI has been used in the healthcare setting for decades in technology and analytics and continues to make an impact in systems thinking and quality outcomes (e.g., data analysis, clinical decision support, and disease diagnosis and treatment, among others). These are vital to controlling costs in a continued era of shrinking reimbursement. AI and machine learning (ML) have been key to many improvements in healthcare delivery over the past two decades in electronic medical records, automated laboratory testing, medical imaging, and portability of protected health information. Technology continues to uncover new insights and drive actions with real potential to improve patient outcomes. The role of AI is to augment a human decision or action in a way that improves efficiency of healthcare delivery, improved quality and increased patient satisfaction. Audience may become aware of current use of AI they are not aware of currently and the role of interoperability of healthcare information (electronic medical records) for coordination of care, future delivery to rural residents, and ease of access.

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DAY 2: FEBRUARY 29, 2024

9:00 AM - 9:50 AM (Continued)

Vibe Check: How can you reach over 10,000 readers with the ubiquitous term paper assignment? Using Artificial Intelligence Tools for Experiential Learning (Grammarly, Zotero, and Wikipedia) to Assist Student Research. (Room 302)
Danielle R. Mehlman-Brightwell, Ph.D., Director of the Office of Community Outreach, Assistant Professor of Public Policy and Communication, University of Pittsburgh at Greensburg, Greensburg, PA
M. E. Yancosek Gamble, Associate Professor, College of Business, Fairmont State University, Fairmont, WV

Increasingly, many instructors around the world have used Wikipedia as a teaching tool in their university classrooms as well. My colleague and I are using Wikipedia Education to teach our students and provide students with experiential learning opportunities. We pair AI and research to allow students to engage in critical thought using both.

There are many different types of assignments, such as an assignment to help students who will increasingly have to make this determination. How should they understand authorship and expertise in the context of online platforms? To tackle the concept of information privilege places information literacy into a sociocultural context of justice and access. Sometimes students come to class unaware that Wikipedia's structure presents the most important current knowledge. Students learn content must be written from a neutral point of view, representing significant views fairly, proportionately, and without bias. Lastly, one might have an article on social construction. Wikipedia is radically transparent. Students can look at edit histories and talk pages to observe the ongoing collaborative construction of articles. They can see firsthand how public knowledge is socially constructed. Regardless of the assignment chosen, the forum gives students an opportunity, rather than merely submitting the assignment to the instructor, to do so on a public forum and to learn about plagiarism, accuracy, and AI in education.

Rather than merely telling you to become part of the program (Wikipedia does that very well), we will show you that we use ChatGPT and other AI research platforms such as Zotero and Grammarly to help students become critical thinkers for themselves and Wikipedia articles.

Finding Inexpensive Computing Resources and Tools for your AI project (AWS) (Room 303)
Gary D. Edwards

Amazon Web Services (AWS) is one of the largest cloud computing services provider in the world. In this presentation we will explore the services available to support your AI project. This includes general computing services like database servers and AI specific services like facial recognition, speech to text and generative AI toolkits. Demonstrations of some of these tools will be presented including face "liveness", image analysis and language translation.

DAY 2: FEBRUARY 29, 2024

10:00 AM - 10:50 AM

How to Empower Your Neurodivergent Students Using AI Technologies (Room 301)
Julie Reneau, Professor of Special Education
Courtney Miller, Assistant Professor of Special Education
Presenters will share how readily available technologies can be used to enhance communication, collaboration, and learning opportunities for neurodivergent students. Demonstrations with AI tools and apps will give attendees the opportunity to see how these tools can support students with specific academic, communication, and executive functioning needs that traditionally impact their ability to access content and communicate with faculty and peers. Presenters will share a list of tools and apps with links so attendees can explore possibilities for use in their courses.

The **Answers of (Tech) Giants: Large Language Models and Productivity Tools in Higher Ed (Room 302)**
Heath A. Howard, PhD, Executive Director of Institutional Research
Alexander Elliott, Director of Application Services
Most of the technology world was interested in seeing how large tech companies like Microsoft, Google, and Apple would respond to the open-source AI which was released to the market. In this presentation, we will overview how large productivity software companies have responded to AI, overview Microsoft's Copilot, and describe how AI may become integrated into Fairmont State's environment.

Artificial Intelligence Technology and The Future of Medicine (Room 303)
Ganga P Sharma, Assistant Professor of Physics
The fusion of AI and medicine represents a paradigm shift towards more precise and accurate diagnostic and therapeutic interventions for various diseases. AI technologies, including natural language processing, deep learning and computer vision, have found applications in radiology, pathology, genomics and drug discovery. In this talk, I will be talking about ongoing research and development in this exciting domain which has great potential in advancing medical sciences and improving global health outcomes.

DAY 2: FEBRUARY 29, 2024

11:00 AM - 11:50 AM

"We Learn to Adapt, " Teaching in the Age of Chat GPT (Room 301)
Candice Moench, Ed. D.; Assistant Professor; Program Coordinator, Reading Specialist, M.Ed.
Keisha-Moraé Hopkins Kibler, Ed.D, NBCT; Assistant Professor; Program Coordinator, Master of Arts in Teaching; Coordinator of Secondary Education Programs
Teaching in the Age of Chat GPT presentation will provide the participants with the opportunity to discuss and exchange ideas for using Chat GPT. The presentation will provide effective Chat GPT strategies to be used with undergraduate and graduate students. It is interesting to think that Chat GPT is the largest book in the world.

The Evolution of Artificial Intelligence and the Rise of Large Language Models
Alexander Elliott, Director of Application Services
Artificial Intelligence has undergone a remarkable journey, from its humble beginnings in Alan Turing's concepts to the transformative era of Large Language Models (LLMs). This presentation aims to provide an exploration of this evolution, discussing the significant advancements that have lead to today's powerful AI technology.

12:00 PM - 1:00 PM
LUNCH: CAFETERIA
[FACULTY AND STAFF:
YOU WILL RECEIVE A LUNCH TICKET WHEN YOU REGISTER.]

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DAY 2: FEBRUARY 29, 2024

1:00 PM - 1:50 PM

AI and Immediate Feedback for Student Learning (Room 301)
Dennine LaRue, Assistant Professor of Mathematics
Dr. Joe Riesen, Professor of Mathematics
This presentation will not only show the application of AI to Mathematics instruction, but also to other subjects which have sequential learning such as Biology, Chemistry, Economics, Psychology, and Statistics. The AI currently in use has been given guidelines to follow rather than complete control. Examples of generative AI will not be shown because that is a future goal.
Participants will be introduced to a homework system which uses artificial intelligence to guide the student through their assignments and help them study for tests. At Fairmont State, Knewton Alta has been used in Trigonometry (1540) since Spring 2020 and Fundamental Concepts (1507) since Spring 2019.
Opinions of national math professionals about the role of AI (positive and negative) in math education will be discussed and can be applied to other STEM disciplines.

Just around the corner: Advancing Careers with AI using Hiration Software for Student Success (Room 302)
Susan Rodriguez, Executive Director of Career Services and Civic Engagement,
M. E. Yancosek Gamble, Associate Professor, College of Business and Aviation
Kayla Lantz, Employee Engagement, Blue Ridge Risk Partners
Hiration aims to empower students with the essential skills and knowledge required to navigate the modern job market using artificial intelligence. Focused on leveraging Hiration software, this presentation will equip attendees with the expertise to craft compelling resumes, and cover letters, and excel in online employment interviews.
Benefits:
- Equip faculty to help themselves, and students with practical AI skills for job application success.
- Foster networking opportunities between students and industry professionals.
- Showcase Hiration as a valuable tool for career development.
- Provide actionable insights from industry experts on AI in recruitment.

DAY 2: FEBRUARY 29, 2024

2:00 PM - 2:50 PM

Automated Variable Selection for High Dimensional Data: A Practical Example in Individuals with ACL Reconstruction (Room 301)
Derek R. Dewig, PhD
Machine learning is a subset of artificial intelligence (AI) and utilizes statistical algorithms to assist in the analysis of data. In orthopedics, determining what patient characteristics (e.g. anthropometrics, strength, flexibility, etc.) associate with outcomes of interest (e.g. patient reported outcomes) is critical to improve clinical practice. Unfortunately, conclusions are often hampered due to the presence of high dimensional data in research studies (i.e. small sample sizes with vast arrays of patient characteristics/variables that may be relevant or irrelevant). Regularization methods have become more common in biomedical fields and permit researchers to utilize a mathematical and machine learning approach to independently assist in determining relevant variables associated with outcomes of interest, and these methods are particularly helpful in the presence of high dimensional data. Specifically, LASSO (Least Absolute Shrinkage and Selection Operator) Regression has become a popular machine learning solution and the purpose of this presentation is to provide an example of a real-world application of LASSO Regression in a data set of individuals with ACL Reconstruction (ACLR). This session will describe the steps and processes utilized to conduct LASSO Regression, potential practical applications in orthopedics research and examples of other, broader uses for this technique.

The Impact of AI on the Composition Classroom (Room 302)
Rebecca Cepek
There have been a variety of responses to the growing effects of generative artificial intelligence programs on composition pedagogy. An exploration of these responses reveals best practices moving forward.

DAY 2: FEBRUARY 29, 2024

3:00 PM - 3:50 PM

Dr. Strange Bedfellows: How I Learned To Stop Worrying And Love AI In Higher Education (Room 301)
Frank LaFone, Director of Institutional Effectiveness
Barbara L. MacLennan, Assistant Professor of Geography
Artificial Intelligence (AI) is a powerful and potentially disruptive technology for education. Much like calculators, the Internet, text messaging, smart phones, and Wikipedia, constantly evolving technologies easily adopted by students can operate as both disruptors and as a potent toolset for education, often doing so simultaneously. ChatGPT, Bard, and similar Large Language Processing engines are the next iteration of this constantly evolving technological landscape. Adapting, integrating, and minimizing disruption of AI technology arguably presents one of the greatest challenges for educators in this century. This presentation will attempt to situate current AI within the historical context of Artificial Intelligence and suggest ways in which current curriculum can evolve to maximize the strengths and minimize the obstacles to educating current AI brings to higher education.

Harnessing the Power of AI in Higher Ed Administration (Room 302)
Carleigh Young, Admissions Technology Specialist
Alexander Elliott, Director of Application Services
Explore the transformative impact of AI in higher education through this engaging conference presentation. Delve into practical applications within university settings, backed by concrete results and statistics from implemented models. Uncover the potential of AI to revolutionize daily operations in academic institutions through an in-depth examination of real-world examples. Attendees will leave equipped with knowledge about the practical implementation of AI and its potential to enhance efficiency and effectiveness, offering immediate value for everyday tasks in their respective roles.

THANK YOU
FOR
ATTENDING!