FRIDAY, SEPTEMBER 26, 2025 8:30 AM - 4:00 PM OU MEMORIAL UNION MOLLY SHI BOREN BALLROOM (THIRD FLOOR)



# OU AI SYMPOSIUM: FROM FOUNDATIONS TO FUTURE

WELCOME TO THE OU AI SYMPOSIUM SHOWCASING THE LATEST IN ARTIFICIAL INTELLIGENCE.

HEAR FROM EXPERTS, DISCOVER NEW INNOVATIONS, AND CONNECT WITH OTHERS SHAPING THE FUTURE OF TECHNOLOGY.



**Driving Directions** 



**OU AI Website** 



Panel Q&A Submissions





# QUICK-GLANCE SCHEDULE

8:30-9:00	REGISTRATION/CONTINENTAL BREAKFAST	
9:00-9:15	INTRODUCTION AND WELCOMING REMARKS	
9:15-10:30	AI WORKING GROUP REPORTS	
10:30-10:45	COFFEE BREAK	
10:45-11:00	NEW CHIEF AI OFFICER REMARKS	
11:00-12:00	PANEL DISCUSSION AND Q&A	
12:00-1:00	LUNCH	
1:00-3:00	BREAKOUT SESSIONS	
3:00-3:15	COFFEE BREAK	
3:15-3:30	CLOSING REMARKS	
3:30-4:00	NETWORKING	





# DETAILED SCHEDULE

8:30-9:00	Registration/Continental Breakfast	
9:00-9:15	Introduction and Welcoming Remarks - Michael Wimberly Interim Director, Data institute for Societal Challenges Professor, Geography and Environmental Sustainability	
9:15-10:30	Al Working Group Reports	
	Governance - April Dickson Director of IT Governance, Risk, and Compliance	
	<b>Health - David Bard</b> Professor and Children's Health Foundation Endowed Research Chair in the Department of Pediatrics	
	Research - Andy Fagg Associate Professor Brian E. and Sandra O'Brien Presidential Professor School of Computer Science Member, Institute for Biomedical Engineering, Science and Technology Associate Director, Data Institute for Societal Challenges	
	Education - Jessica Davila Associate Dean for Digital Strategies and Innovation at OU Libraries	
	Resources and Infrastructure Chongle Pan - Professor of Computer Science and Biomedical Engineering Tyler Pearson - Director, Digital Scholarship and Data Services, OU Libraries Henry Neeman - Executive Director, Research Computing Chris Jones - Senior Director, Digital Strategy & Enablement for OU Information Technology	
10:30-10:45	Coffee Break	
10:45-11:00	New Chief AI Officer Remarks - Shishir Shah Chief AI Officer Director of the School of Computer Science	
11:00-12:00	Panel Discussion and Q&A	
	Panel Members: Andy Fagg, Tim Wiseman, Jun Li, M. Geneva Murray, Chris Jones, Shishir Shah. Michael Wimberly as moderator	
12:00-1:00	Lunch	

# PRESENTATION INFORMATION

1:00-3:00  Breakout Sessions: University Researchers Presenting the Results of their Summer AI Pilot Projects				
Session 1 (Ballroom)	Session 2 (Scholar's Room)			
<b>Tyler Pearson</b> Al Pilot of Tools and Workshop Curriculum for Research and Instruction	<b>YongJu Jung</b> Syllabi and Activities for Al-Assisted Maker Education: Design and Evaluation			
<b>Heshan Sun</b> Trustworthy AI for Research and Learning: Role-based Multi Agent AI Applications for Information Accuracy	Jinyoung Park (Representing Sharukh Khajotia) Detecting and Locating Second Mesio-Buccal Canals in Maxillary Molars using Al			
Sinaro Ly (Representing Chongle Pan) Benchmarking the Scalability, Turnaround time, and Cost of On-premise and Cloud Computing Platforms for Fine-tuning LLMs	<b>Dee Wu</b> Developing a model structured curriculum for the use of AI in training differential diagnosis			
Blaine Mooers Extending the Impact of the Oklahoma Data Science Workshop	<b>David Bard</b> A Comparative Pilot of Manual vs. LLM-Augmented Abstraction for Clinical Imaging Reports			
Xiaolan Liao Smart Data Prep: an Al- Assisted Tool for Streamlined Data Preprocessing and Integration for Non- Programmer Researchers	Jacob Pleasants Instructional Resources to Promote OU Students' Critical Al Literacy			
Collin Torbett (Representing Chenggang Wang) Catalyst OU: A Pilot for an LLM-Powered Researcher Collaboration Network	Sophia You Feasibility of an Al-Powered Learning Healthcare System for Behavioral Medicine Services			
Julian Sandberg (Representing Sungbo Jung) Establishing a High-Performance Local AI Development Platform: Empowering the University of Oklahoma with Secure and Efficient On-Premises LLM Capabilities	Hudson Harris (Representing Javeed Kittur) Al-Enhanced Teaching: A Bloom's Taxonomy-Based Faculty Development Initiative			

# PRESENTATION INFORMATION

Arif Sadri Enhancing Traffic Engineering Education with Al: Integrating Advanced Techniques for Traffic Analysis, Design, and Control		Arnold Kanagwa Predicting 30-Day Unplanned Hospital Readmissions Using Machine Learning: From Model Development to Deployment	
Sam Huskey Al for Cost-Effective Research Workflows When Funding is Scarce		Kenton Brice AI-First Legal Education: Course Development, Secure Assessment, and Canvas Assistant	
<b>Eric Day</b> Connecting the Dots between AI use and Well-being In and Outside of Work		<b>Dee Wu</b> Timely Responsible AI Think Tank (TRAITT) Curriculum Development and Evaluation	
3:00-3:15	Coffee Break		
3:15-3:30	Closing Remarks		
3:15-4:00	Networking		

# FIND MORE INFORMATION ABOUT EACH SPEAKER ON THE NEXT FEW PAGES





# WORKING GROUP PRESENTERS

# **April Dickson**



April Dickson serves as the Director of IT Governance, Risk, and Compliance and Co-Lead of the university's AI Governance Working Group. With over 25 years of IT experience and more than a decade in information security, she brings deep expertise in aligning technology, compliance, and institutional strategy. In her current role, April oversees a team dedicated to policy development, risk assessments, compliance initiatives, and resiliency planning. As Co-Lead of the AI Governance Working Group, she has helped shape the university's AI Usage Guidelines and is advancing the recommendation for an AI Advisory Council to guide the responsible adoption of AI across teaching, research, and operations.

#### **David Bard**



David Bard is a Professor and Children's Health Foundation Endowed Research Chair in the Department of Pediatrics at the University of Oklahoma Health Campus and serves as Director of the Biomedical and Behavioral Methodology Core (BBMC). As the University's Chief Research Informatics Officer, Dr. Bard directs the Office of Clinical Research Informatics (OCRI) and leads the governance and operation of research informatics resources, including clinical trial management systems, REDCap, and clinical data warehouses, with a focus on high-performance computational analysis of clinical and "omics" data. Research expertise spans biostatistics, informatics, and psychometrics, with a particular emphasis on implementation and quality science, measurement-based care, and the integration of clinical data for applied biomedical and behavioral research. Serving as a principal investigator and co-investigator on numerous federally and state-funded studies, Dr. Bard has contributed to large-scale evaluations of early intervention and prevention programs, data harmonization initiatives, and the development of registries for clinical and translational research.

# **Andy Fagg**



Andrew H. Fagg is an associate professor in the School of Computer Science at the University of Oklahoma. He holds a BS in Applied Mathematics/Computer Science from Carnegie-Mellon University, and a MS and a PhD in Computer Science from the University of Southern California. His research focuses on the computational issues surrounding the symbiotic relationships between humans and machines. In particular, he is interested in primate and robot learning of motor skills and task-oriented representations; reaching, grasping, and manipulation; brain-machine interfaces; and interactive art.

# OU AI SYMPOSIUM: FROM FOUNDATIONS TO FUTURE WORKING GROUP PRESENTERS

#### Jessica Davila



Jessica Davila is the Associate Dean for Digital Strategies and Innovation at the University of Oklahoma Libraries. In this role, she leads the Libraries' technology and open-source strategy, that underpins their digital services and support for technology and data-intensive research and creative activities. She leads the teams responsible for advancing open educational resources (OER) to lower course material costs for students, open journal publishing, and administering research publication subvention funding to offset costs associated with open publishing through traditional publishers. She also oversees the implementation of the OU-Norman Open Access Policy. She is a co-chair of OU's AI Education Working Group and sponsors the Libraries' Al Action Team on Al Research Support and Student Success. She also serves as co-principal investigator on an Ithaka S+R research project, Defining and Implementing AI Literacy. As part of this project, the OU research team is working to understand what AI literacy skills students feel they need, with the goal of addressing those needs through library-led AI literacy workshops.

Jessica was recently accepted into the Learning Experience Design and Technology master's program in OU's Jeannine Rainbolt College of Education, where she is interested in exploring the intersection of AI, educational technology, and the learning sciences.

## **Chongle Pan**



Chongle Pan is a professor of Computer Science and Biomedical Engineering at the University of Oklahoma. Prior to joining OU, he worked as a senior research scientist in the Computer Science and Mathematics Division of Oak Ridge National Laboratory. Dr. Pan has published more than 60 peer-reviewed journal publications and is the corresponding author on 14 publications. He has mentored 6 postdoctoral researchers, 3 of whom then became tenure-track assistant professors of computer science in the U.S. His research focuses on using artificial intelligence and machine learning for knowledge discovery in bioinformatics and developing new high-performance computing algorithms for scalable analytics of big -omics data.

# OU AI SYMPOSIUM: FROM FOUNDATIONS TO FUTURE WORKING GROUP PRESENTERS

#### **Henry Neeman**



Dr. Henry Neeman is the University of Oklahoma's Executive Director of Research Computing and Director of the OU Supercomputing Center for Education & Research (OSCER), as well as an Associate Professor of Engineering and an Adjunct Associate Professor of Computer Science at OU. He received his BS in computer science and his BA in statistics with a minor in mathematics in 1987 from the University at Buffalo, State University of New York, his MS in CS from the University of Illinois at Urbana-Champaign (UIUC) in 1990 and his PhD in CS from UIUC in 1996. Prior to working at OU, Dr. Neeman was a postdoctoral research associate at the National Center for Supercomputing Applications (NCSA) at UIUC, and before that served as a graduate research assistant both at NCSA and at UIUC's Center for Supercomputing Research & Development. In addition to his own teaching and research, Dr. Neeman co-founded and co-leads the OneOklahoma Cyberinfrastructure Initiative, the Research Computing Facilitators Virtual Residency Program, the Certified Cyberinfrastructure Facilitator Training & Development program, the Cyberinfrastructure Leadership Academy, and the Supercomputing in Plain English training program.

# **DISCUSSION PANEL**

# Michael Wimberly



Mike Wimberly is the Interim Director of Data Institute for Societal Challenges (DISC) and a Professor in the Department of Geography and Environmental Sustainability and the head of the EcoGRAPH research group (https://ecograph.net). His research combines ecological models with satellite Earth observations to address scientific questions and develop applications in the fields of public health and natural resource management. Areas of study include wildfire and vegetation dynamics in temperate and tropical forest ecosystems, drivers and consequences of urbanization and agricultural expansion, and the effects of land use and climate on vector-borne disease transmission. Dr. Wimberly builds upon this research to create software that applies geospatial data and analytics for decision support. He has developed disease early warning systems to predict West Nile virus outbreaks in the United States and malaria in Ethiopia, used Earth observations to monitor forest degradation and urban growth in West Africa, and designed spatial simulation models to project future landscapes under scenarios of global change.

#### Shishir K Shah



Shishir Shah is the first university-wide Chief Al Officer and the Director of the School of Computer Science. He comes to OU from the University of Houston, where he served as Professor and Chair of the Department of Computer Science. He founded and led UH's Quantitative Imaging Laboratory, which focuses on developing advanced image and video analysis tools that support complex decision making. He earned a B.S. in mechanical engineering, M.S. and Ph.D. in electrical and computer engineering from the University of Texas at Austin. Prior to joining the University of Houston in 2005, he served as a faculty member at Wayne State University before transitioning to leadership roles in two startup companies

#### **Tim Wiseman**



Tim Wiseman is the University Risk Officer for the University of Oklahoma (OU) serving OU's Norman, Oklahoma City and Tulsa campuses. Tim is also an Enterprise Risk Management (ERM) trainer and faculty member for the PRIMA and previously served as a board member for the University Risk Management and Insurance Association (URMIA). His risk management experience includes time as the Chief Risk Officer at the University of Wyoming and as the AVC for ERM at East Carolina University. A recognized and accomplished ERM practitioner, Tim shares insights regularly in auditing, finance and risk forums. Tim is a U.S. Army veteran with over 24 years of service.

# OU AI SYMPOSIUM: FROM FOUNDATIONS TO FUTURE DISCUSSION PANEL (CONT.)

## Jun Li



Jun Li, Ph.D., is the founding chair of the Department of Molecular Genetics and Genome Sciences at the University of Oklahoma College of Medicine. An accomplished geneticist and computational biologist, Dr. Li brings decades of expertise in genomics, biomedical data science, and interdisciplinary research. Before joining OU, he served as professor of human genetics and associate chair of computational medicine and bioinformatics at the University of Michigan Medical School. He earned his Ph.D. in biophysics and electrophysiology from the California Institute of Technology following undergraduate studies in physics at Peking University and completed postdoctoral training in genetics and genomics at Stanford University.

# M. Geneva Murray



M. Geneva Murray is the Senior Associate Director for Teaching at the Center for Faculty Excellence. She leads various faculty cohorts, including the DUET Fellow Program. She works closely with the teaching team to develop engaging, topical workshops and learning communities, as well as asynchronous learning experiences. She created a Canvas course on Generative AI and Teaching, open to all OU faculty. She's an OU representative on the Al Impact on Higher Education Policy and Learning Committee with the Oklahoma State Board of Regents and a co-chair for OU's Al Education Working Group. To support her understanding of current challenges and opportunities in teaching, Geneva continues to teach at OU as an adjunct, where she incorporates problem-based learning into her asynchronous online and in-person course. She's previously taught first-year experience courses as well as both undergraduate and graduate courses, and in Women's, Gender, and Sexuality Studies, Education, and Higher Education programs. She created the first designated service-learning course at Ohio University.

### **Chris Jones**



Chris Jones is the Senior Director for Digital Strategy & Enablement for Information Technology at the University of Oklahoma. In this role, he leads university-wide IT strategy and digital alignment efforts across academic, research, clinical, and administrative areas. He oversees strategic planning, organizational performance, governance, and coordination with institutional leadership and external partners.

# BREAKOUT SPEAKERS-SESSION 1 (BALLROOM)

## Tyler Pearson



Tyler Pearson is the Director of Digital Scholarship and Data Services at University Libraries and previously served as Director of Informatics. He has extensive experience developing platforms and science gateways that support research and learning. Tyler has presented at national conferences, including the Coalition for Networked Information, where he has promoted the adoption of Kubernetes and the National Research Platform to advance scalable cyberinfrastructure. His professional interests include workflow automation, leveraging technologies, and experimenting with the Model Context Protocol to enable generative AI to interact with platforms and applications.

#### **Heshan Sun**



Heshan Sun, Ph.D., is the Richard Van Horn Professor of IT and Analytics in the management information systems division. He is the coordinator of the MIS division's Ph.D. program. His research centers around how information technology profoundly influences and interacts with individuals, organizations, and society. Specifically, his research interests include human technology/AI interaction, business analytics, and online crowd behavior. His published and forthcoming papers have been in many prestigious academic journals such as MIS Quarterly, Information Systems Research, Journal of the Association for Information Systems, Decision Support Systems, International Journal of Human-Computer Studies, and Journal of the American Society for Information Science and Technology. He is a Senior Editor at MIS Quarterly, the Journal of the Association for Information Systems, and the AIS Transactions on HCI.

#### Sinaro Ly



Sinaro Ly is a Ph.D. student in CS at the University of Oklahoma, working in Dr. Pan's PanLab. Originally from France, he completed his undergraduate at ISIMA in Clermont-Ferrand before earning his M.S. at OU in 2023. His research focuses on machine learning and artificial intelligence for biomedical applications. He published work using 3D OCT imaging combined with machine learning to improve kidney surgery guidance and is currently working on large language model (LLM) fine-tuning methods for clinical trial matching, aligning patient records with eligibility criteria to support eligibility decision.

# BREAKOUT SPEAKERS-SESSION 1 (BALLROOM)

## **Blaine Mooers**



Blaine Mooers is an Associate Professor of Biochemistry and Physiology at the University of Oklahoma Health Campus in Oklahoma City. His research interests include the role of RNA structure in the RNA editing system found in trypanosomes and structure-based drug design targeting RNA. He also collaborates on drug discovery efforts that target proteins with roles in cancer. His lab uses X-ray crystallography, molecular modeling, and OSCER. His data science interests include applying machine learning approaches to the optimization of crystallographic studies. He co-chairs the monthly meetings of the Oklahoma Data Science Workshop.

## Xiaolan Liao



Xiaolan Liao, PhD, is an Assistant Professor in the Department of Pediatrics at the University of Oklahoma Health Campus. Her research integrates causal inference, machine learning, and biostatistics to advance precision prevention in child health, with a focus on mental, behavioral, and physical outcomes such as ADHD, sleep, and asthma. She leads two projects funded by OU's Data Institute for Societal Challenges (DISC) and directs the People-Centric AI & Data Science Lab (PAIDS Lab), which develops AI-assisted tools and data infrastructure for child health research. She also serves as Co-Investigator on federally and foundation-funded studies of maternal/early childhood home visiting and pediatric social adversity.

## **Collin Torbett**



Collin is a graduate student at the OU Polytechnic Institute pursuing a Masters in Cybersecurity. His previous work includes cybersecurity roles in the US Federal Government, a penetration testing firm, and at Spiers New Technologies as a software engineer. His research interests include knowledge graphs, LLMs and AI in cybersecurity, and advanced adversary emulation. He has two Batchelors degrees in History and Political Science, a minor in Intelligence Analysis, and a Masters in Engineering in Data Science and Analytics.

# BREAKOUT SPEAKERS-SESSION 1 (BALLROOM)

Julian Sandberg Julian Sandberg is a senior in the Cybersecurity program at the University of



Oklahoma Polytechnic Institute, set to enter a 4+1 accelerated Master's program. With a background in geology, he has strong analytical skills and holds a CompTIA A+ Certification. Julian actively builds his technical proficiency through independent projects, focusing on cybersecurity fundamentals, network architecture, and developing secure infrastructure for AI research. He is passionate about hands-on implementation of automated system configuration in the IT field.

#### **Arif Sadri**



Arif Sadri is an Associate Professor in the School of Civil Engineering and Environmental Sciences at the University of Oklahoma (OU). He received his doctoral training at Purdue University and directs the Transportation, Risk, and Information Commons (TRICS) Lab at OU. Dr. Sadri's research focuses on how transportation systems critically depend on both social and physical infrastructures in the context of natural and man-made hazards. He develops data-driven, network-based solutions to enhance bottom-up resilience in complex, interdependent systems. His work is funded by several federal and state agencies in the United States, including the CAREER award from the U.S. National Science Foundation.

# BREAKOUT SPEAKERS-SESSION 1 (BALLROOM)

# Sam Huskey



Samuel J. Huskey received his Ph.D. in Classics at the University of Iowa. He is a professor of Classics and Letters at the University of Oklahoma, where he has been on the faculty since 2002. His scholarship concerns the intersection of classical philology and digital technology, with particular emphasis on computational humanities and machine learning.

# **Eric Day**



Eric Day (Ph.D. Texas A&M University) is a Professor of Industrial/Organizational Psychology in the Dodge Family College of Arts and Sciences and Faculty Fellow of the Institute for Community and Society Transformation. His research spans personnel psychology and organizational behavior with an emphasis on performance adaptability. Funding sponsors for his research have included NSF, NASA, NHTSA, DoD (Army, Navy, and Air Force), and DOT-FAA-CAMI. Current projects include better understanding how (a) leadership and team dynamics relate to team effectiveness, (b) EEG measurement can be used to examine relationships between self-regulation and skilled performance, (c) curiosity and emotions distinguish adaptive performance from routine performance, and (d) Al technologies in the workplace affect job engagement, career development, and well-being.

# BREAKOUT SPEAKERS -SESSION 2 (SCHOLAR'S ROOM)

## YongJu Jung



YongJu Jung is an Assistant Professor in the School of Library and Information Studies at the University of Oklahoma. Her research centers on learners' social and affective interactions and learning with innovative technology in various informal educational environments, including libraries, museums, makerspaces, and online settings. Her recent projects aim to leverage embodied and maker-based learning for data/AI literacy, STEM learning, and life transitions. Her research has been supported by IMLS, HHS, as well as OU DISC and VPRP. She earned a PhD in learning, design, and technology from the Pennsylvania State University.

## Jinyoung Park



Jinyoung Park is a third-year dental student at the University of Oklahoma College of Dentistry (OUCOD). He brings a unique analytical background to the field, holding a Bachelor of Science in Petroleum Engineering from the University of Oklahoma. Park is focused on the intersection of dentistry and technology; their primary research interest involves the development and application of artificial intelligence, specifically using image processing to enhance diagnostics. Outside of his dental studies, he enjoys photography and playing the piano.

#### Dee Wu



Dee Wu, Ph.D., M.S.S.E., DABMP, DABMRS, FAAPM is Professor and Chief of Technology Applications and Translational Research at the University of Oklahoma Health Sciences Center. A board-certified medical physicist and Fellow of the AAPM, Dr. Wu is nationally recognized for advancing AI in diagnostic imaging, patient safety, and medical education. He leads AI integration efforts at OU Medical Center and the VA Health System, focusing on clinical workflow optimization and regulatory compliance. A champion of interprofessional education, Dr. Wu develops microlearning and simulation tools to prepare providers for real-world decision-making. Dr. Wu has completed over 34 projects across various medical subspecialties, demonstrating his adaptability to diverse research and translational environments. He regularly presents on AI-enhanced simulation, snippet-based learning, and digital curriculum design.

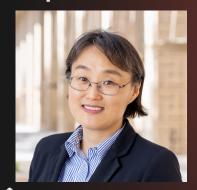
# BREAKOUT SPEAKERS -SESSION 2 (SCHOLAR'S ROOM)

Jacob Pleasants Jacob Pleasants is Associate Professor of Science Education in the Jeannine



Rainbolt College of Education. His work focuses on preparing students and teachers to critically evaluate the technological systems (AI or otherwise) in our schools and everyday lives. He is co-director of the Civics of Technology Project (<a href="www.civicsoftechnology.org">www.civicsoftechnology.org</a>), which brings together a network of scholars and educators who share an interest in questioning technology. His favorite technology is the bicycle.

# Sophia You



Dokyoung Sophia You, PhD, is a licensed health service psychologist and health researcher specializing in pain psychology. Her work focuses on developing accessible, evidence-based brief interventions to improve pain management and daily functioning for individuals with chronic pain. She is particularly interested in integrating behavioral and technological approaches within a learning healthcare system to enhance patient engagement, continuously improve care, and optimize outcomes.

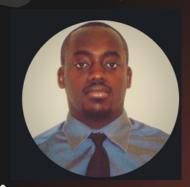
#### **Hudson Harris**



Hudson Harris is a Biomedical Engineering student at the University of Oklahoma. His research examines how generative AI can improve engineering teaching and learning, including faculty readiness, course design, and assessment. He co-leads a systematic review on digital twins in engineering education and develops practical AI toolkits and professional-development modules for OU faculty and first-year design courses.

# BREAKOUT SESSION SPEAKERS SESSION 2 (SCHOLAR'S ROOM)

# Arnold Kanagwa



Arnold Kanagwa is a data scientist with the CRDW team, specializing in machine learning and predictive analytics. He brings cross-industry experience and a strong focus on improving hospital operations and patient care through data-driven solutions.

#### **Kenton Brice**



Kenton Brice is the Director of the Law Library and Associate Professor of Law at the University of Oklahoma College of Law and a nationally recognized voice in legal technology and innovation. He oversees College's award-winning Digital Initiative, which integrates legal technology and innovation training at OU Law and has earned OU Law recognition as an Apple Distinguished School and a Bloomberg Law Innovation Finalist for multiple years. A frequent speaker at national conferences, including the ABA TECHSHOW, and a member of the Fastcase 50, Kenton focuses on the intersection of legal education, practice-ready technology skills, and institutional innovation in higher education.