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Dr. Emily M. Jones, KNR

- Current Research Projects and Initiatives:
 - District 87 Wellness Collaborative
 - Diversifying the Teacher Pipeline (Recruitment and Retention)
- Provost Fellow, Online and Extended Learning Initiatives 2023-2024
 - Assisted Academic Affairs with strategic and vision-casting for online and extended learning
 - Listening campaigns to gather capacity and infrastructure (existing and needs) efforts would impact the entire system
 - Currently piloting microcredential and digital badging as mechanisms to diversify adult learner opportunities
- How can tech better serve this work?
 - Inter-disciplinary, -professional, -sector collaboration is key secure cloud-based collaboration, document sharing and generation, data analysis and dissemination tools
 - Repository of people, knowledge, programs, capacity, needs, etc. to build upon strengths and reduce duplicity
 - General Observation: Software library and knowledge base is not widely known or accessed by faculty researchers.

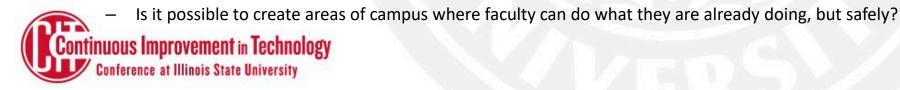


Dr. Sumesh J. Philip, School of IT

- •Research Interests Intersection of Cybersecurity, IoT/wireless systems, Machine Learning and Artificial Intelligence
- •Access Control in IoT systems
- –IoT ecosystems are diverse and complex; lacks standards and controls
- —Recent research showed weak access controls, and easily compromised devices (networks)
- •IoT Traffic characterization and anomaly detection
- —Traffic patterns are specific to classes of devices; allows ML algorithms to identify device class
- —How to detect anomalies? How to detect specific device within each class?
- •Jailbreaking Large Language Models
- •IT support and resources
- —COTS hardware, Raspberry Pis, open-source software and packages
- —Thank you to all involved!
- —Streamline request-response, point of contact for projects, promote inter-disciplinary research/open problems and repository of past/ongoing projects

Dr. Roy D. Magnuson, WKCFA

- Co-Chair, XR @ ISU in RCAB
- Current XR Projects:
 - State Farm Teen Safe Driver Simulation (\$400k+ contract)
 - VENT (Opioid Overdose Simulation) for Apple Vision Pro (ISU/OSF/SIU/IIN)
 - So many "Apple things" to learn/deal with moving forward
- Provost Fellow, Disruptive Technologies 2023-2024
 - Assisted Academic Affairs with response to AI
 - Lots of talks, workshops, ending in forming Committee for the Responsible Use of AI
 - Slow, but good, progress!
- What I have seen/learned from all of this:
 - Communication is key!



RCAB - \$2M+ Grant Support

Research Computing Advisory Board

- Red Tape
 - Legal Contracts
 - Software/Hardware purchases
 - CIRBN
- Connect researchers across disciplines and with local champions
- Other campuses & organizations (NERC/MOC Alliance, Internet2, North Western, Boston University, etc.)
- Workforce Development*



- Heavy Foundational Tech hardware/software (funded)
 - eSports*
 - HPC
 - AR/VR
 - DIGGS, Discovery Lab, "Area 51"
 - The "Hyper-Connected Farm" Concept
 - AI + Linux Deep Learners
 - Jupyter Notebooks
 - Lenovo/Microsoft "Al Computers"
- Augmenting startup funds (with OVPR support)
 - Centrally funded equipment
 - Help researchers find Internal funds
 - Funding from grants (IDC, etc.)

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