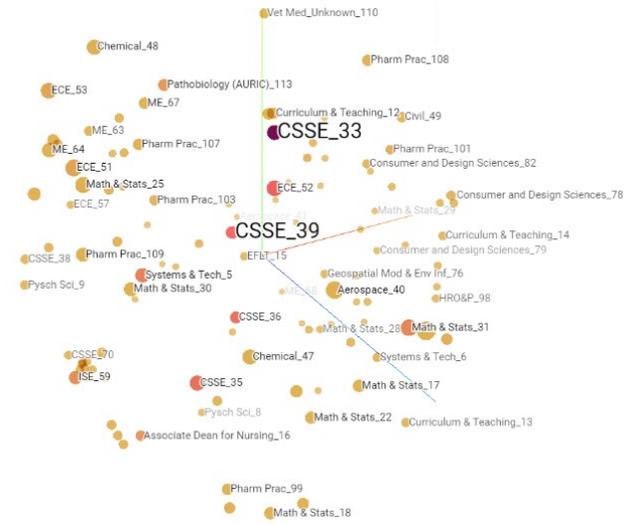# AI@AU

AUBURN UNIVERSITY
ARTIFICIAL INTELLIGENCE INITIATIVE

Key Objectives

1. Build an AI Computational Resource to Support AI-related Education and Research @ AU

2. Bring together AI-related AU faculty to Build a Scientific Community and to Coordinate AI-related Education and Research activities

3. Make this group a single PoC for external enquiries to AU regarding AI and a foundation for responding to future large-scale multidisciplinary education/research opportunities in AI

4. Develop University-wide Awareness and Enthusiasm for AI-related Education/Research activities

5. Explore University-wide Education Innovations in AI:
   - An undergraduate certificate that any major can earn
   - A more technical graduate certificate and degree

AI@AU Aligns with two goals in AU's Strategic Plan:

✓ Conducting transformative, multidisciplinary research to address society's critical issues

✓ Elevating the Auburn experience through distinctive and innovative curricula

AI@AU r-Harmony Visualization

News

AI research leads CSSE assistant professor to NSF CAREER Award

$2 million investment will create artificial intelligence initiative at Auburn

Exploration into wireless machine learning results in NSF grant

AI@AU Committees

- Research

- Computational Infrastructure

- Education

- Inclusive Excellence and AI Ethics
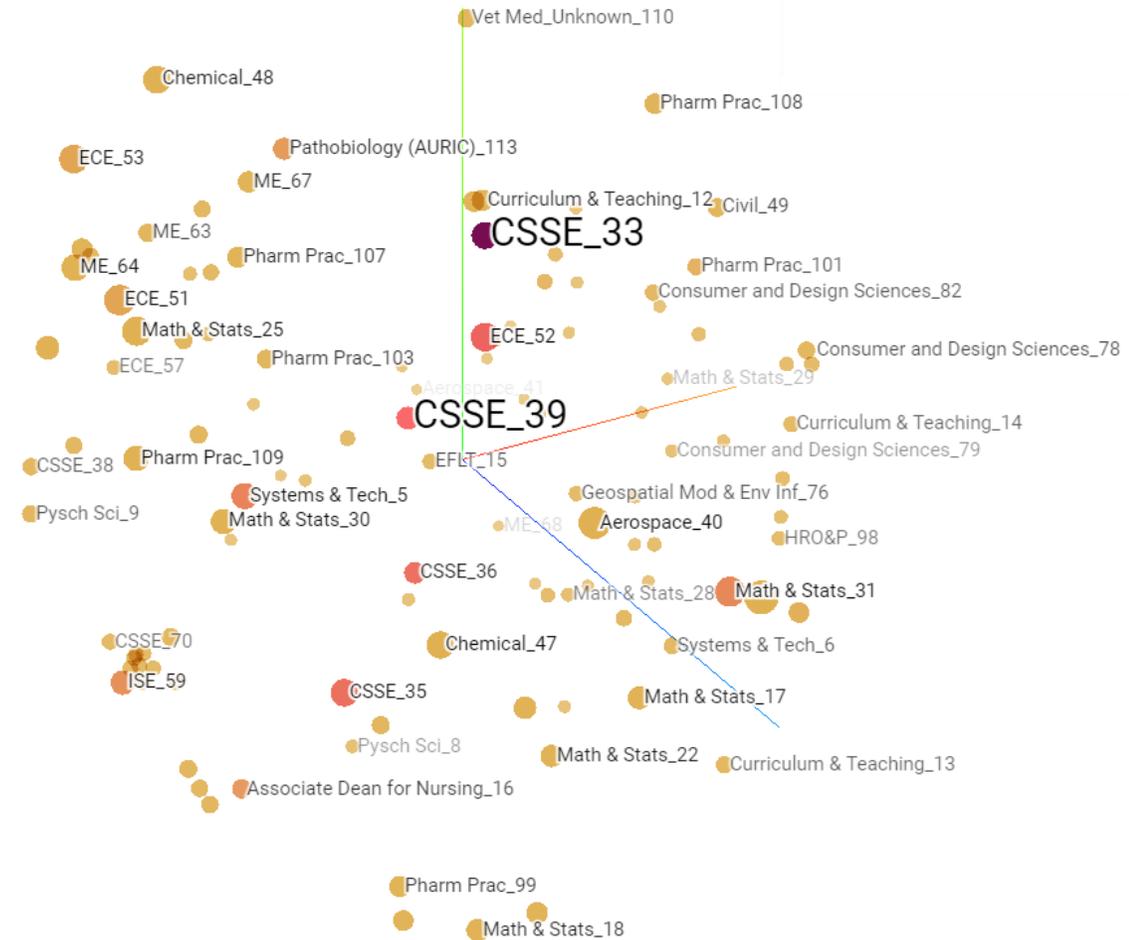
- Outreach

- Advanced AI Think Tank

Note: An Executive Committee will consist of the leads (administrative and technical) along with the chairs of the other committees.

AI Research Committee

Responsible for:

- ✓ Establishing and maintaining our AI@AU Forum

- ✓ Working with the core faculty to develop strategies for obtaining extramural funding through internal & external collaborations

- ✓ Keeping the AI@AU website's research section up-to-date

AI@AU r-Harmony Visualization

Research Committee

Jeff Ku (Chair)

Thomas Denney

Gopikrishna Deshpande

Ashish Gupta

ENG/CSSE: Data
Management
Systems

ENG/ECE:
Biomedical Imaging
& Motion
Estimation

ENG/ECE: Signal
Processing
& Multimodal
Data Fusion

COB/DST: Busin
ess Analytics

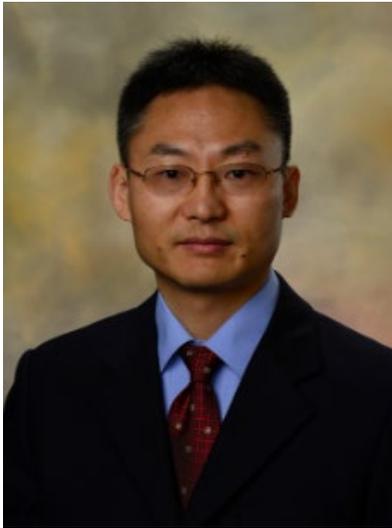AI @ AU
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Research Committee

Peter He

ENG/CHEM: Smart
Manufacturing &
Cancer Informatics

Wis Kwon

College of Human
Sciences/CDS:
Retail Technologies
and Innovations

Brenda Ortiz

College of Agriculture:
Crops and Soil

Alice Smith

ENG/ISE

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Research Committee

Di Tian

College of Agriculture:
Human and Earth
System Sciences

Pao-Feng Tsai

College of Nursing:
Geriatrics

Jin Wang
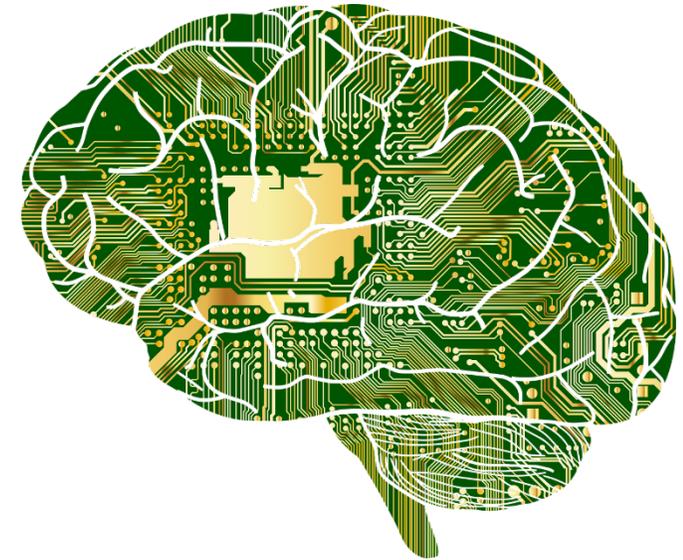
ENG/CHEM:
Biogas Conversion &
Animal Feed Production

Yang Zhou

ENG/CSSE:
Machine
Learning

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AI Computational Infrastructure Committee

Responsible for:

- ✓ Architecting, Purchasing, and Implementing the AI Computational Infrastructure (AICI)

- ✓ Identifying and/or Developing Workshops to inform the core faculty concerning the AICI

- ✓ Providing advice and directions for further development of the AICI

Computational Infrastructure Committee

Shannon Price (Chair)

Denise Baker (Co-Chair)

Bradley Morgan (Co-Chair)

Kelly Price (Co-Chair)

SGCOE Director
Network Services

Library IT
Director

OIT

CSSE Systems Engineer

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Computational Infrastructure Committee

Susan Bannon

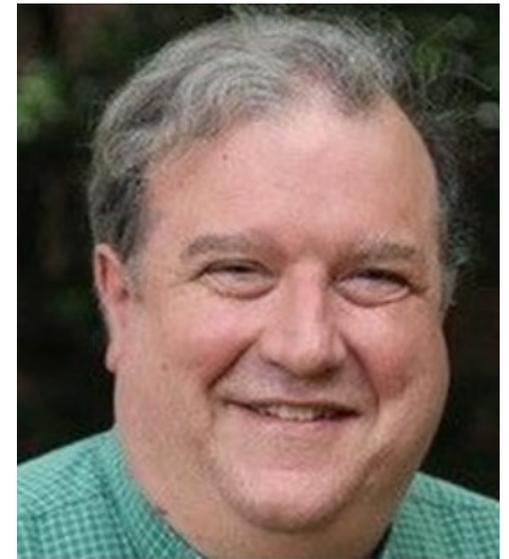Department of Educational Foundations, Leadership, and Technology

Joel Beckum

College of Architecture IT Manager

Daniel Caldwell

College of Pharmacy IT Director

Darrell Crutchley

College of Liberal Arts IT Manager

Computational Infrastructure Committee
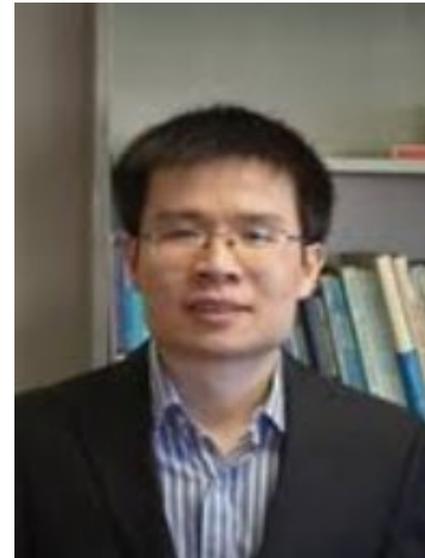
Jonathan Davis

College of Agriculture
IT Director

Sanjiv Kumar

Forestry &
Wildlife Sciences

Junshan Lin

Department of Math
and Statistics: Inverse
and Optimal Control
Problems

Amit Mitra

College of Pharmacy:
Drug Discovery &
Development

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Computational Infrastructure Committee

Jingjing Qian

Jeff Stallworth

Leora Wright

College of Pharmacy:
Health Outcomes
Research and Policy

OIT

College of Nursing
IT Specialist

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AI Education Committee

Responsible for:

✓ Working with core faculty in an effort to design, develop, implement, and maintain:

a. The Undergraduate Certificate Program

b. Any other educational innovations

✓ Keeping the AI@AU website's education section up-to-date

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Education Committee

Nedret Billor

Department of Math and Statistics: Climate Risk Forecasting

Santu Karmaker

CSSE: Natural Language Processing

Hari Narayanan

CSSE: Human-Computer Interaction

Anh Nguyen

CSSE: Deep Learning and Computer Vision

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Inclusive Excellence & AI Ethics Committee

Responsible for:

- Promoting Inclusive Excellence (IE) by
  - ✓ Developing an understanding of IE
  - ✓ Providing an evaluation (and improving) our equity practices
  - ✓ Make IE resources available to AI@AU Faculty

- In terms of AI Ethics
  - ✓ Supplying AI@AU Faculty & Students with the most relevant information wrt to AI Ethics
  - ✓ Developing workshops for the AI@AU faculty wrt AI Ethics
  - ✓ Scheduling AI@AU Forum presentations related to AI Ethics

Inclusive Excellence & AI Ethics Committee

Cheryl Seals (Co-chair)

CSSE: Human Centered AI

Joan Harrell (Co-chair)

College of Liberal Arts, Inclusive Excellence

Taffye Clayton

Associate Provost and Vice President for Inclusion & Diversity

Myoung- Gi Chon

School of Communication & Journalism

Melody Russell

Science Education: Curriculum and Teaching

Thank You!