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Advanced and Inclusive Computing for Education (AICE) Lab

Statement: AICE Lab is an interdisciplinary space to design, develop, and investigate innovative theories, methods and technologies about learning analytics and artificial intelligence to advance the fundamental research and practices for inclusive STEM and online education.

Research Summary: As a learning analytics and AI researcher in education, Dr. Wanli Xing is a tenure-track assistant professor in College of Education at the University of Florida. His research themes are: (1) explore and leverage educational big data in various forms and modalities to advance the basic understanding of learning processes; (2) design and develop fair, accountable and transparent learning analytics and AI powered learning environments; (3) create innovative strategies, frameworks, and technologies for AI, Data Science, and Computing Workforce development. With these interrelated themes, he aims to push the fundamental limits of learning analytics and AI to revolutionize STEM and online education. His research has been supported by National Science Foundation, Institute of Education Sciences, National Security Agency, Schmidt Family Foundation, Helios Education Foundation, and the University of Florida. Dr. Xing directs the AICE lab, standing for Advanced and Inclusive Computing for Education.

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**Team:**

Director:

Wanli Xing is the Director of AICE and is an assistant professor of educational technology in the School of Teaching and Learning at the University of Florida. His research interests are learning analytics and artificial intelligence in STEM and online education.

Students:

Hanxiang Du

Chenglu Li

Bo Pei

Ray Opoku: <https://www.rayopoku.com/about.html>

Yukyeong Song: <https://song60.creatorlink.net/>

**Research:**

* (Chenglu) FAccT AI for Algebra Nation: [IES, Schmidt Family Foundation, UF AI Catalyst, UFII Seed Grant]
* (Chenglu) AI Education (NSA):
  + ML4Math
  + Hardware Security Education
* (Hanxiang) LKP12 Computing Education [NSF] + Conversational Agent
* (Chenglu) AI for Flamingo Learning System: Helios Education Foundation
* (Chenglu) AI Cyberinfrastructure + HiperGator [Schmidt Family Foundation, UF AI Catalyst]
  + Software package
  + Data templates
* Learning Analytics for Engineering Design [NSF]
* Infrared Explorer [NSF]
  + Pei Bo Paper
  + My paper
* Temporal Scaffolds Dashboard [PSU]
  + Pei Bo dashboard
* VMT [NSF]
* Written Scientific Argumentation [NSF]
* iSocial [DoE]
* Online Communities Analytics
* Social Media Analytics
* MOOCs

**Publications**

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