



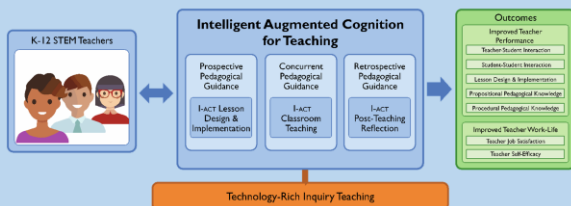
SES-1840120  
&  
IIS-1839966

# AUGMENTED COGNITION FOR TEACHING: Transforming Teacher Work Intelligent Cognitive Assistants

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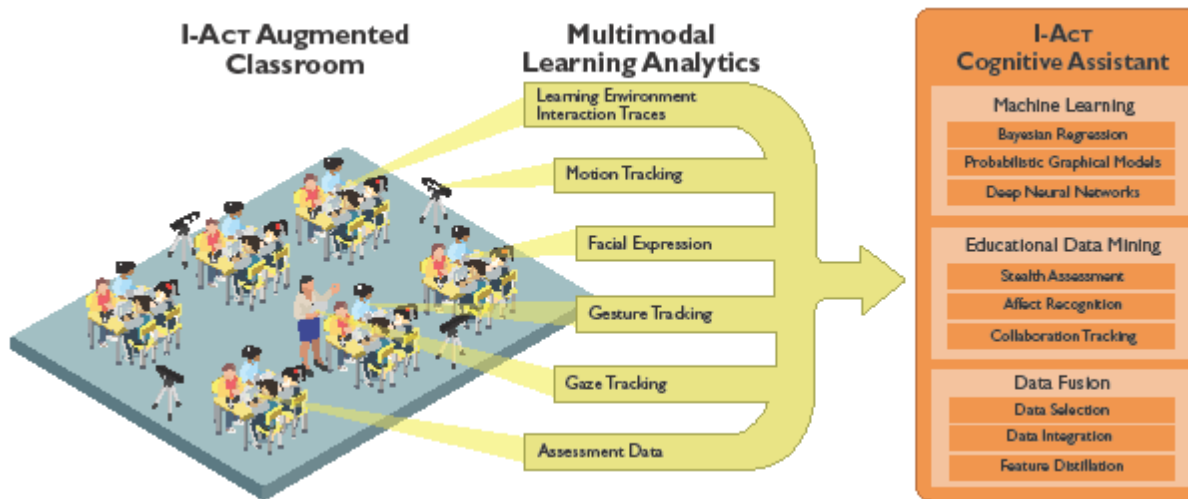
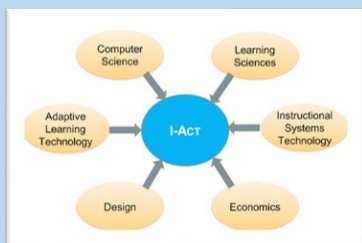
## Research Thrusts

- Design and develop I-ACT cognitive assistants for K-12 STEM teachers and implement them in public school classrooms.
- Investigate how I-ACT cognitive assistants improve K-12 STEM teacher performance and teacher quality of work-life.



## Convergence Research

The project brings together a diverse team of researchers.



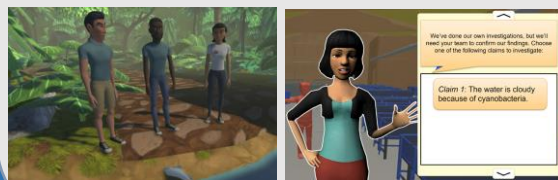
## Workplace Context

The project builds upon existing partnerships established by North Carolina State University and Indiana University with local schools and teachers to inform a deeper understanding of how we can support teacher orchestration for collaborative engagement in complex problem-solving contexts.



## Collaborative Game-Based Learning

I-ACT is being investigated in the context of collaborative learning with the ECOJOURNEYS game-based learning environment.



## Multimodal Analytics

- Facial Behavior Analysis
- Motion and Gesture Analysis
- Game-based Learning Environment Trace Data

