



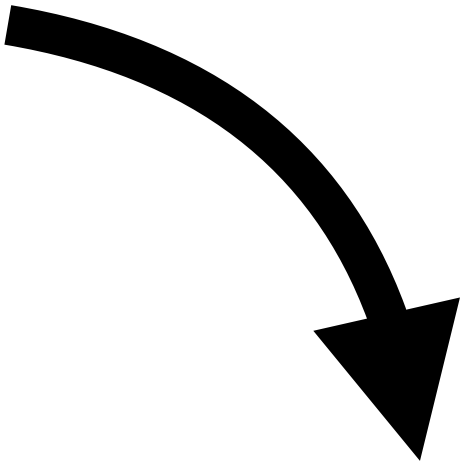
**Research** *vision*

103

**Study  
Programmers**

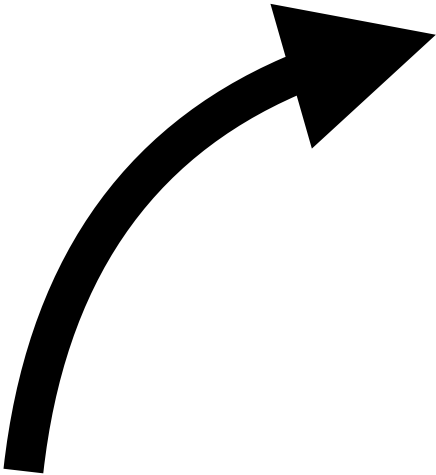
# Build Systems

**Evaluate with  
Programmers**









**insights**

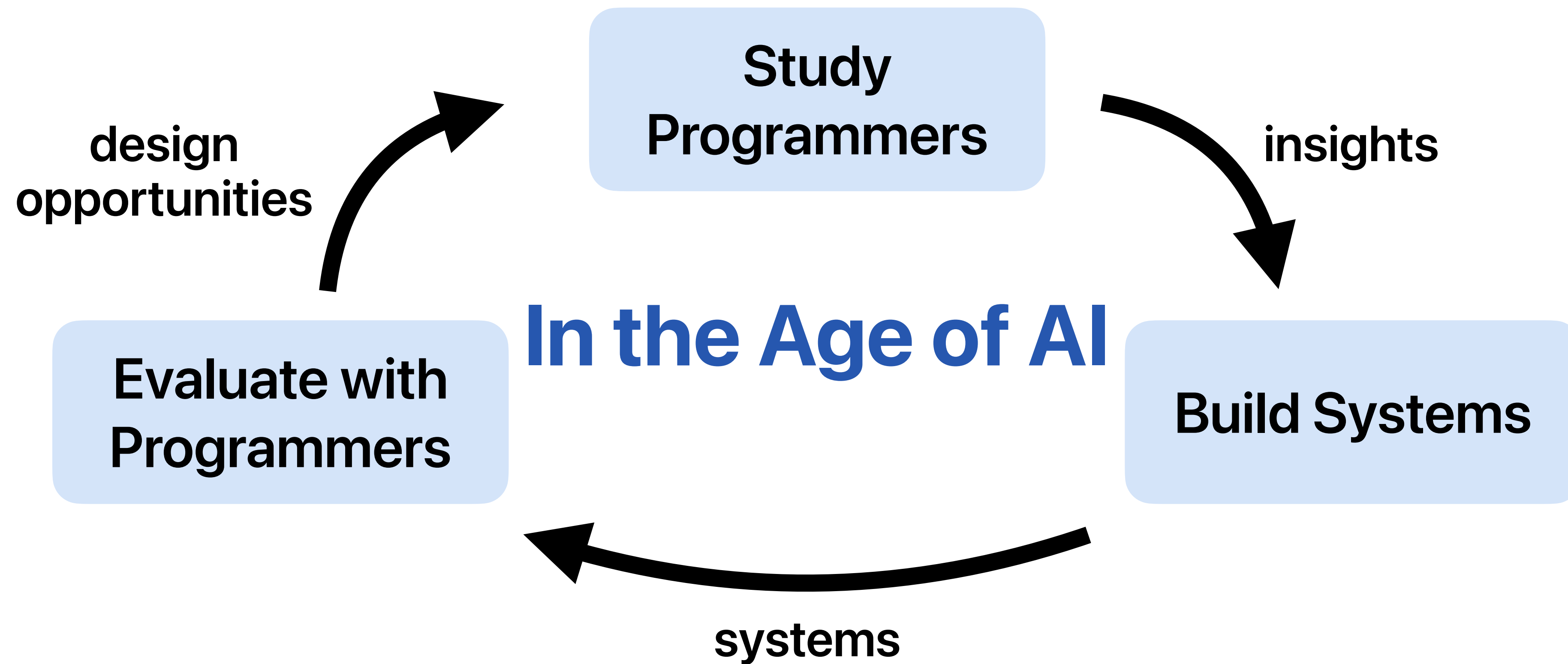
**systems**

**design  
opportunities**

In the Age of AI

to better support programers

# Research Vision



**to better support programmers**

# Current Work

## Software Developers

Validation Support  
for AI-Assisted  
Software Development  
[CHI 2024]

Visual Debugger for  
GUI App Development  
[VL/HCC 2024]

## Scientists

Understanding  
Scientific Users of  
Computational Notebooks  
[ICSE 2025]

Clarity-Driven  
Notebook Authoring  
[In Submission]

## Students & Teachers

Programming  
Visualizations for Intro CS  
[SIGCSE 2022]

Educational Environment  
for SMT Solving  
[MSR TR 2025]