# Understanding is a form of Power.

I engineer ways for people to learn, interpret complexity, and keep authority over what happens next.

ONGOING RESEARCH PROGRAM

## AI Engineering for Learning That Holds Up

How do cognitive safety, instructional integrity and learner agency shape AI-assisted learning?

**CRG-ANL** connects a research program, student-experience constructs, protocols, schemas and structured observations. My own learning is its first case environment. Benchmark development and broader validation remain ongoing.

Explore the research program and source artifacts

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ONGOING N-OF-1 STUDY

## The Hidden Work of Learning

What does a learner have to figure out before the actual learning can begin?

**HIDRS** examines unclear prerequisites, competing priorities, cognitive switching and assessment alignment. Its research system includes a protocol, workbook, event schemas, capture templates and analysis tooling. Findings are not presented as generalizable.

Inspect the study protocol and research system

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EXPLORATORY EXPERIMENT

## Backward Design Meets AI

Can an explanation start with the person and the understanding they need?

Public BID/CoT artifacts include Python prompt-comparison code, answer examples and an initial five-question comparison. The recorded scores were tied; the experiment did not establish a BID advantage. It provides an inspectable starting point for a better study.

Read the prompts, answers and initial results

# Who gets understood?
# Whose knowledge counts?
# Who keeps the authority?

DOMAIN SPECIFICATION / ONGOING RESEARCH

## The Eight Wonders of Black Shopping

What happens when AI lacks the cultural concepts needed to understand the people it interprets?

The Eight Wonders and **Algorithmic Hermeneutical Injustice** examine culturally situated interpretation through trust, authenticity, status, identity, enacted fidelity, perceived quality, contextual performance and narrative. The public specification distinguishes defined concepts from proposed community calibration and validation.

Read the specification boundaries and research context

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RESEARCH DESIGN / PUBLIC MANUSCRIPT DRAFT

## Helping People Think With AI

How can AI support reasoning while people retain the ability to challenge and revise it?

**Narrative-Conditioned Interfaces** and the Narrative-First Adversarial Loop structure work through hypothesis, evidence, invariance, adversarial challenge and refined insight. The research includes proposed measures and study designs; instrument validation and pilot outcomes remain unverified.

Explore the research-in-progress module

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ENGINEERING / RESEARCH INFRASTRUCTURE

## Research That Becomes Something Usable

**The Living Constitution** connects research to inspectable AI workflows: intent, evidence, uncertainty and human authority. Related work includes the Constitutional Sensory Net prototype and Contract Window for Bob, an applied IBM hackathon implementation. Each artifact keeps its own maturity and verification status.

Explore the research and engineering ecosystem

**Other forms of the same practice:** Reflexive research workflows, learning experiences, adaptive-fashion design and dramaturgy. Different forms. Shared questions about understanding, participation and agency.

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