

Hudson Mitchell-Pullman

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TL;DR

I am a visiting scholar at Virginia Tech researching computer science education for AI-assisted programming. My broader interests lie at the intersection of HCI, learning science, and artificial intelligence. I've received over \$20,000 in research grants from [Emergent Ventures](#), Foundry10, and the Lift Off Grant to support my research. My interests lie in the use of intelligent tutoring systems and pedagogical AI tutors to support advanced problem solving, critical thinking, and end-user programming. I am mentored by [Annapurna Vadaparty](#) (UCSD), [David Smith](#) (Virginia Tech), and [Qianou Ma](#). (Carnegie Mellon).

EDUCATION

Taking a gap semester for research with Prof. David Smith's ASCEND³ Lab at Virginia Tech.

Henry High School

August 2024 – May 2026

Expected Graduation 2028 (from online high school)

GPA: 4.50/4.0

Relevant Coursework: AP Physics Mechanics C, AP Calculus BC, AP Computer Science

UC San Diego (Dual Enrollment)

January 2026 – present

Coursework: Multivariable Calculus, Linear Algebra, Java

Art of Problem Solving

June 2025 – December 2025

Coursework: Calculus, Olympiad Mathematics

RESEARCH EXPERIENCE & PROJECTS

Visiting Scholar — Virginia Tech ASCEND³ Lab

May, 2026 - present

- Lead author on submissions to SIGCSE Virtual (already submitted), SIGCSE TS, Koli Calling, CHI, and ICER.
- Defining canonical computer science education learning objectives for AI-assisted programming.
- Evaluating a novel methodology for teaching requirement engineering with software testing.
- Postulating theories of the role of tacit and domain knowledge for AI-assisted programming.
- Conducting expert vs. novice requirement engineering assessments for the AI era.
- Conducting class deployment study in a CS2 course at an R1 research institution.

Founder & Lead Researcher — Papert Lab

December, 2025 - present

- Founded Papert Lab, an applied learning science lab that investigates the impact of AI on learning, memory, curiosity, and intelligent tutoring systems.
- Funded by over \$20,000 in research grants from education nonprofits and Emergent Ventures at George Mason University (Tyler Cowen).
- Please visit [our website](#) to see the most up to date information. Seriously, I worked so hard on it so I want to show off the design!!

Mentored Research — UCSD CS Education Lab

June 2025 - present

- Mentored by Annapurna Vadaparty, a last year Ph.D. student investigating problem decomposition and CS1 pedagogy.
- Earned 2nd place at the GSD Science and Engineering Fair.
- Performed a deep 200-paper literature review on prompt engineering, human-computer interaction, and AI-assisted novice programming education.
- Drafted a research proposal analyzing the effect of manipulating input-output pairs in AI-assisted programming systems for pedagogy.
- Submitted to the Artificial Intelligence in Education conference for a novel requirement engineering pedagogical paradigm.
- Conducted 100+ person comparison RCT to compare requirement engineering learning outcomes of high and low level testing.

LEADERSHIP & ACTIVITIES

Founder & President, Henry AI Club April 2025 - present

- Built a high-impact community of 20+ students interested in AI and computer science
- Mentored 10 high school students in prompt engineering, computer science, and human-AI interaction over six weeks.
- Coordinated a group of three other students for the Presidential AI Challenge, where we're building a realtime math tutor.
- Won two hackathons with the members of my club.
- Presented to the World Language department on applications of AI in language acquisition.

Member, SDx @UCSD January 2025 - present

- Youngest member of UCSD's invite-only AI startup and builders community.
- Built 10+ projects and collaborated with UCSD students at hackathons.
- Attended weekly meetings with leading researchers and builders in computer and cognitive science.

Model UN November 2022 - present

- 12x award winner at international conferences; fiercely debated the Middle East, geopolitics, antitrust, economic policy.

SPEAKING

Khan Academy AI in Education Summit November 1, 2025

- Presented at an exclusive educational conference on integrating Generative AI into Intelligent Tutoring Systems. Included a small group of Stanford students, the head of education at Anthropic, the director of the Stanford Accelerator for Learning, and other industry professionals, teachers, and students.

Education Futures Podcast December, 2025

- Invited to speak on an impactful education technology podcast with the leader of a successful French education think tank.

Art of Problem Solving February, 2026

- Invited to speak to CEO and technical staff on the role of conceptual math education on learning outcomes; AI-enhanced intelligent tutoring systems.