

Chau Vu

Pomona College
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EDUCATION

2022-26 **Pomona College**
B.A., Computer Science and Math
GPA: 3.94/4.00
Primary advisors: Professor Jingyi Li & Professor Alexandra Papoutsaki (Pomona College), Professor Daniel Epstein (University of California, Irvine)
Research interests: Human-AI Interaction, Multisensory systems, 3D Graphics, Creativity Support Tools, Personal Informatics

PUBLICATIONS

Conference Publications

- 2025 Jiaju Ma, **Chau Vu**^{*}, Asya Lyubavina^{*}, Jingyi Li. “Computational Scaffolding of Composition, Value, and Color for Disciplined Drawing”
🏆 UIST 2025 [Acceptance Rate 22%] **Best Paper (Top 0.2% of Submissions)**
- 2025 Julianne Louie^{*}, Tara Mukund^{*}, **Chau Vu**^{*}, Daniel A. Epstein, Alexandra Papoutsaki. “Understanding Temporality of Reflection in Personal Informatics through Baby Tracking”
🏆 CHI 2025 [Acceptance Rate 25%] **Best Paper Honorable Mention (Top 5% of Submissions)**

In Submission

- 2025 Alexandra Papoutsaki, Mustafa Taha Dişbudak, Lily Galvan, **Chau Vu**, Daniel A. Epstein.
“Understanding Adoption, Use, and Abandonment Practices in Baby Tracking”
Planned submission to CHI 2026

Symposiums/Workshops

- 2024 **Chau Vu**. “Mapping the Current Landscape of Care Robotics: A Focus on the United States”.
The History and Future of Care Robots Symposium 2024
- 2023 Daisy Abbott, Anjali Nuggehalli, Francisco Morales Puente, **Chau Vu**, Ella Zhu, Anthony J. Clark
“Creating Dynamic Simulation Environments With Unreal Engine 5”
Southern California Robotics Symposium (SCR 2023).

RESEARCH EXPERIENCE

- 2023– **Research Assistant**
under Professor **Jingyi Li** & PhD Candidate **Jiaju Ma (Stanford University)**
—Pomona College, Doodle Lab
Co-author a tool to help with “disciplined drawing” – drawing practice to improve illustration skills by scaffolding the drawing process in composition, value, and color. Worked on the conceptual framing, user study design, and led the technical implementation from machine learning algorithms for color clustering and contour extraction to textual feedback using Python, OpenCV, & Flask.
- 2023– **Research Assistant**
under Professors **Alexandra Papoutsaki & Daniel Epstein (University of California, Irvine)**
—Computing Research Association and Pomona College HCI Lab
First-authored a framework on temporal reflection in personal informatics. Conducted 20 in-depth interviews and led qualitative coding. Extended study with quantitative analysis of longitudinal app usage.

- 2022–24 **Research Assistant**
under Professor **Anthony Clark**
—Pomona College, Autonomous Robotics Complex Systems
Co-authored a data collection pipeline in simulation that aimed to improve the adaptability of autonomous robots using Unreal Engine and Pytorch.
- 2023–24 **Research Assistant**
under Professor **Angelina Chin**
—Pomona College, History Department
Co-host and presented at the symposium "History of Assistive Technologies". Awarded the Rockoff Foundation Research Fellowship.

AWARDS AND GRANTS

- 2025 🏆 **UIST Best Paper**
- 2025 **UIST Travel Conference Scholarship**
- 2025 🏆 **ACM CHI Best Paper Honorable Mention**
- 2024 **Best Insights Main Prize at UCLA Datafest**
- 2023 **Google Product Inclusive & Equity Summit Winner**
- 2023 **Google Conference Scholarship**
- 2023 **Rockoff Foundation Research Fellowship on Assistive Robots Research**
- 2023 **Computing Research Association (CRA) Mentorship Program Scholar**
- 2022 **Pomona College Scholar (awarded to students with high GPA)**
- 2022 **Pomona International Scholarship (highest scholarship covering the undergraduate program's full cost)**
- 2021 **International Youth Math Challenge Silver Medal**

INDUSTRY EXPERIENCE

- 2025 **Software Engineering Intern**
Microsoft
At Direct3D's Graphics team, pioneered one of the first GPU workloads leveraging shader execution reordering. Developed a stylized raytracing sample in C++ and HLSL that improved frame rates by up to 60%. Designed specialized ray divergence patterns to shape functional fixes with **NVIDIA, AMD, and Intel** engineering teams. Published the sample guiding developers worldwide to adopt SER for next-generation graphics applications.
- 2025 **Software Engineering Intern**
FPT Corporation
Developed the notification feature's interface for a large-scale management portal product with daily traffic of 7,000 users using Python (Django) and ReactJS.

TEACHING & SERVICE

- Teaching Assistant**
- 2024 CS 062 - Spring 2024: Data Structures and Algorithms
- 2023 CS 054 - Fall 2023: Functional Programming and Discrete Mathematics
CS 051A - Spring 2023: Introduction to Computer Science with Topics in Artificial Intelligence

Teaching Volunteer

- 2024 Volunteered to mentor high school students through the Pomona College Academy for Youth Success (PAYS), a program that enrolls over 90 local students from backgrounds traditionally underrepresented in higher education. Led lessons on HCI research methods, concepts, interview techniques, and thematic analysis.

LEADERSHIP

- 2021-23 **Co-founder, Technical Program Manager**
VieSign - The first Vietnamese Sign Language learning platform
Directed engineering team to create the website using MERN stack, featuring the first and only VSL learning resource database with 3,000+ resources, improving communication between Deaf patients and doctors in hospitals and communities across Vietnam. Recognized as the youngest co-founder leading strategies to secure partners including the European Union.
- 2023-24 **Software Developer Lead**
Associated Students of Pomona College
Led team to develop and maintain a Ruby on Rails website to manage course schedules, ratings, and voting systems for Pomona students, serving a user base of 2,500 daily active users.

SKILLS

Programming: Java; Python; C++; JavaScript; HTML; CSS; Haskell; SQL

Frameworks: Web (ReactJS, NodeJS, MongoDB, Flask, Django); Arduino; XR (Unity); Postgres; Git

Design: Qualitative Research; Thematic analysis; Surveys; Interviews; Prototyping (Figma)

Updated September 2025