

# Victoria Prokopenko

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## EDUCATION

**Pomona College** Claremont, CA **Expected Graduation Date: May 2028**  
*Bachelor of Computer Science and Cognitive Science* GPA: 4.0/4  
**Awards/Honors:** Annexstad Scholar, Scholar Designation Award (Fall 2024, Spring 2025), AP Scholar w/ Distinction  
**Relevant Coursework:** Data Structures, Computer Systems, Functional Programming, Computational Design Tools

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, R, Haskell, Swift, C  
**Software:** Visual Studio, PyCharm, R Studio, GitHub, Figma  
**Languages:** Russian (Fluent), Spanish (Proficient)

## WORK AND RELEVANT EXPERIENCE

**Pomona College Computer Science Department** Claremont, CA  
Research Assistant, **Human Computer Interaction Lab** August 2025 – Present

- Designed and iterated on **interactive prototypes** (web/mobile/XR) and contributed to a **research report and conference presentation** in collaboration with faculty and undergraduate researchers.
- Conducted **literature reviews of 30+ HCI papers** and supported **3+ user studies with 35+ participants**, including usability testing and task-based evaluations.

Teaching Assistant, Introduction to Computer Science August 2025 – Present

- Teaching Assistant for a **60+ student** Intro to Computer Science course covering algorithms, computer systems, recursion, machine learning, and ethics in computing, with programming in Python.
- Supported student learning by leading labs, debugging code, and grading **80+** assignments, reinforcing both theoretical foundations and applied programming concepts.

**Coding with Kids** Seattle, Washington  
K-12 Coding Instructor May 2025 – August 2025

- Instructed coding and game development to **60+** students ages 5–12 in summer camps using **Scratch, Python, Java, and Lua** on platforms like Minecraft Education, Roblox Studio, CodeKingdoms, guiding the creation of over **230** games and digital projects.
- Co-led a training curriculum overhaul** for an incoming cohort of **100+** instructors by scripting, recording, and editing 10 onboarding videos, streamlining orientation and improving instructional consistency across programs.

**Quantitative Skills Center** Claremont, CA  
Office Assistant August 2024 – May 2025

- Facilitated **over 100 tutoring sessions** by coordinating schedules, pairing **50+** students with suitable tutors or study groups, and ensuring seamless session execution.
- Streamlined administrative processes, booking errors 12% via data organization and real-time tutor availability tracking

## PROJECTS

**Embodied Musical Development in XR with Apple Vision Pro (Swift, SwiftUI, Unity, RealityKit/ARKit.)**

- Collaborated to design and prototype an **XR application** for the **Apple Vision Pro** using **Swift, Unity, and ARKit**, to serve as an embodied, creative exploration tool for the live coding/ algorithmic rave music scenes.
- Conducted **pilot studies with users**, applying **user-centered design, usability testing, and feedback synthesis** to refine interaction design, enabling the physical manipulation of musical elements in XR environments.
- Synthesized insights from **40+ HCI and XR research papers** into design principles for embodied XR applications in a **5-person research team** producing **weekly documentation** and a **formal proposal** for future XR research.

**AI Assistant, an AI-Powered Language Study Assistant Tool (Python, Streamlit, Hugging Face, PyPDF2)**

- Built and deployed an AI-powered study assistant in **Python/Streamlit** that extracts text from PDFs, summarizes content with Hugging Face models, and **auto-generates 5–10 flashcards** per document.
- Processed PDFs up to **50+ pages** with **<10 sec/page** summaries and a Streamlit Cloud interface for instant access.
- Currently extending functionality to export generated flashcards to Anki format, streamlining study workflows and reducing manual note creation by an estimated **60–70%**.

## LEADERSHIP, PROFESSIONAL DEVELOPMENT, AND EXTRACURRICULARS

- Management Leadership for Tomorrow (**MLT**) Career Prep Fellow | Tech Track
- Computer Science Department Liaison
- ColorStack** Chapter Member
- First Generation Low-Income Student Mentor
- Russian Hall Mentor, Oldenburg Center for Modern Languages and International Relations