

Eleanor Vance

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July 5, 2026

Dr. Marcus Thorne

Director of Admissions

Department of Computer Science

Apex Research University

100 Science Parkway, Suite 400

Boston, MA 02115

Subject: Letter of Intent for Admission to the Ph.D. Program in Computer Science

Dear Dr. Thorne and Members of the Admissions Committee,

I am writing to formally express my enthusiastic interest in admission to the Ph.D. program in Computer Science at Apex Research University, with a specific focus on Human-Centered Artificial Intelligence and interactive machine learning systems. Under the supervision of Dr. Thorne, I intend to investigate how collaborative AI agents can learn from sparse user feedback in real time. My goal is to develop robust, adaptive systems that align seamlessly with human intent, and I believe Apex's multidisciplinary research culture provides the ideal environment for this pursuit.

My academic and professional journey has prepared me for the rigor of doctoral research. I graduated with a Bachelor of Science in Computer Science from the University of California, Berkeley, where I maintained a 3.92 GPA and completed an honors thesis on interactive reinforcement learning. Following graduation, I worked for two years as a Research Assistant at the Berkeley AI Lab, contributing to three peer-reviewed publications at major conferences (ICML and NeurIPS). This experience honed my mathematical foundation, deepened my proficiency in Python and PyTorch, and taught me the value of structured empirical validation.

Apex Research University is particularly compelling to me due to the groundbreaking work conducted at the Interactive Systems Laboratory. The lab's current project on interactive decision support systems aligns perfectly with my research interests. I am eager to contribute my background in reinforcement learning from human feedback (RLHF) to scale these systems to complex real-world tasks. Having studied Dr. Thorne's recent publication on cooperative multi-agent dynamics, I am inspired by your approach and confident that my research skills would complement the ongoing projects in your lab.

Thank you for your time and consideration of my application. I have enclosed my curriculum vitae, academic transcripts, and letters of recommendation for your review. I would welcome the opportunity to discuss my research proposals and how my background aligns with the goals of Apex Research University in an interview. I look forward to hearing from you.

Sincerely,

Eleanor Vance

Research Assistant

Department of Electrical Engineering and Computer Science

University of California, Berkeley