

# Timothy Peine

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## Education

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### Bachelor of Science in Information Systems

Expected – 05/2026 | San Diego, CA

San Diego State University

- *Relevant Coursework: Python, R, SQL, Calculus, Statistics, JavaScript, Systems Analysis & Design, Database Management Systems, Networking Technologies, Cybersecurity Management*

## Academic Honors

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- GRE Score: 340/340 (170 Verbal, 170 Quantitative), AWA 5/6
- Summa Cum Laude, San Diego State University

## Research Interests

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Human-AI Interaction, AI-Augmented Cognition, AI-Assisted Decision-Making, Organizational Design

## Publications

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Abhari, K. & **Peine, T.** (2026). How Generative AI Reshapes Cognition: Empirical Grounding of the Augmented Cognitive Extension Model. *Under Review, International Conference on Information Systems (ICIS)*.

Abhari, K. & **Peine, T.** (2026). Agentic AI and Delegation Paradox: An Augmented Cognitive Extension Perspective. *Conditionally Accepted, Americas Conference on Information Systems (AMCIS)*.

Abhari, K. & **Peine, T.** (2026). How Generative AI Changes the Way We Think: The Case for Augmented Cognitive Extension [☑](#). *Accepted, European Conference on Information Systems (ECIS)*.

**Peine, T.** & Abhari, K. (2026). How AI Companion Changes Your Mind: Toward a Theory of Augmented Cognitive Extension [☑](#). *Accepted, International Conference on Human-Computer Interaction (HCI)*.

## Research Experience

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### Research Assistant

08/2025 – Present | San Diego, CA

Digital Innovation Lab (DiLab), San Diego State University

Advisor: Dr. Kaveh Abhari

- Co-developed the Augmented Cognitive Extension (ACE) framework across four conference manuscripts (HCI, ECIS, AMCIS, ICIS), contributing to theory building on how generative AI reshapes cognitive regulation
- Co-designed and administered a qualitative study using informed grounded theory methodology (Gioia et al., 2013), recruiting experienced GenAI users through Prolific across three theoretically sampled waves
- Conducted open, axial, and selective coding to identify regulatory mechanisms governing cognitive coupling with generative AI, producing a three-stage developmental model
- Completed comprehensive literature reviews spanning information systems, cognitive psychology, and extended cognition theory

## Teaching Experience

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### Teaching Assistant

08/2025 – Present | San Diego, CA

San Diego State University, MIS Department

- MIS 306 (Information Systems Analysis & Design) – Spring 2026
- MIS 315 (Python Programming) – Fall 2025
- MIS 380 (SQL and Database Management) – Fall 2025

Responsibilities include grading projects and assignments, providing one-on-one student support, and proctoring examinations across three different courses

## Curriculum Development Specialist

08/2025 – Present | San Diego, CA

San Diego State University, MIS Department

Supervisor: Dr. Dave Meader

- Proposed an AI-powered coaching system for MIS 306 (Information Systems Analysis & Design), mapping student failure modes to scoresheet criteria and designing diagnostic behaviors grounded in course materials
- Designed departmental certification-to-course alignment strategy integrating 12 industry IT certifications (CompTIA Security+, AWS Cloud Practitioner, Cisco CCNA) with MIS undergraduate curriculum, including implementation proposals and feasibility analyses
- Created detailed implementation and evaluation frameworks for departmental experiential learning initiatives in collaboration with Dr. Dave Meader

## Industry Experience

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### Technology Assurance Intern

06/2025 – 08/2025 | San Diego, CA

KPMG

- Conducted IT audit procedures including control testing, walkthroughs, and documentation across multiple client systems using SOX and SOC compliance frameworks
- Collaborated with cross-functional teams to assess risks, identify control gaps, and deliver key insights to senior auditors and client stakeholders
- Gained hands-on experience with ITGCs, application controls, and audit tools in a Big 4 professional services environment
- Received and accepted return offer to join KPMG full-time as a Technology Assurance Associate in 2026

### Operations Manager

01/2023 – 04/2024 | Philadelphia, PA

Stages

- Oversaw and coordinated operations and project management for tech start-up
- Fostered long-term relationships with clients and vendors spanning multiple time zones and continents
- Implemented and trained staff on multiple technology platforms including Excel, Favro, and Office 365
- Assisted in development of mobile application and website, operations plans, and investor pitch deck

### Business Manager

08/2019 – 01/2023 | Philadelphia, PA

Grayson Sky

- Engaged with clients and managed multiple accounts for marketing and digital media company
- Executed extensive market research and competitor analysis for accounts spanning numerous industries
- Contributed to team projects with brand development and copywriting for clients

### Data Analyst

04/2020 – 09/2020 | Arlington, Virginia

GroupSense

- Performed data breach mitigation for cybersecurity company
- Processed and analyzed large datasets utilizing Python, Spark, and Hadoop
- Influenced group dynamics across multiple continents while working with an entirely remote team

## Presentations & Service

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### Panel Speaker

MIS Department All-Hands Welcome Event - Student Research & Career Panel

San Diego State University (2025)

### Poster Presentation

Automating Scheduling with Deputy - MIS 306 Project Showcase

San Diego State University (2025)

## Certifications

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- CompTIA Security+

## Languages & Technical Skills

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Python, R, SQL, JavaScript, HTML/CSS, Data Analysis, Networking Fundamentals, Project Management, Cybersecurity Fundamentals, Business Systems Analysis, Favro, Qualtrics, Prolific, Zotero