

Timothy Peine

timothypeine9@gmail.com | 949-363-3944 | San Diego, CA | LinkedIn

Education

Bachelor of Science in Information Systems,

Graduated – 05/2026 | San Diego, CA

San Diego State University

- Relevant Coursework: Python, R, SQL, Calculus, Statistics, JavaScript, Systems Analysis & Design, Database Management Systems, Cybersecurity Management, Principles of Microeconomics & Macroeconomics

Academic Honors

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

Research Interests

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

Publications

Peine, T. & Abhari, K. (2026). The Team Delegation Paradox: Augmented Cognitive Extension in Hybrid Human-AI Teams. *Under Review, Industrial Management & Data Systems*.

Peine, T. & Abhari, K. (2026). The Calibration Gap: How Cognitive Regulation Converts Generative AI Adoption into Organizational Performance *∅*. *Under Review, Hawaii International Conference on System Sciences (HICSS)*.

Peine, T. & Abhari, K. (2026). Cognitive Extension or Erosion? A Calibration Theory of Cognitive Well-Being under Generative AI *∅*. *Under Review, Information Technology & People*.

Peine, T. & Abhari, K. (2026). Cognitive Coupling with Generative AI: The Augmented Cognitive Extension Model *∅*. *Conditionally Accepted, International Conference on Information Systems (ICIS)*.

Peine, T. & Abhari, K. (2026). Agentic AI and Delegation Paradox: An Augmented Cognitive Extension Perspective *∅*. *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 (HCII)*.

Academic Experience

Research Assistant, Digital Innovation Lab (DiLab)

08/2025 – Present | San Diego, CA

San Diego State University, Advisor: Dr. Kaveh Abhari

- Co-developed Augmented Cognitive Extension (ACE) theory across seven manuscripts, extending the framework from individual cognition (HCII, ECIS) to agentic delegation (AMCIS) and team-level collective intelligence (IM&DS)
- Co-designed and administered a five-wave qualitative study of 25 experienced GenAI users across technical, academic, and professional archetypes, recruited through Prolific and analyzed with informed grounded theory
- Conducted open, axial, and selective coding to identify five regulatory mechanisms and a three-stage developmental trajectory explaining how cognitive coupling with GenAI extends or erodes cognition (ICIS)
- Advanced calibration as the mechanism linking GenAI use to worker well-being (IT&P) and organizational performance (HICSS), theorizing the asymmetric failure modes of under- and over-calibration

Teaching Assistant, San Diego State University, MIS Department

08/2025 – 05/2026 | San Diego, CA

- 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, San Diego State University, MIS Department

08/2025 – 05/2026 | San Diego, CA

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

Technology Assurance Associate, KPMG

08/2026 – Present | San Diego, CA

- Perform IT audit procedures, including ITGC and application control testing, walkthroughs, and documentation across client systems under SOX and SOC compliance frameworks
- Collaborate with cross-functional engagement teams to assess risk, identify control gaps, and communicate findings to senior auditors and client stakeholders

Technology Assurance Intern, KPMG

06/2025 – 08/2025 | San Diego, CA

- Completed a summer internship with the Technology Assurance practice and accepted a return offer to join the firm

Operations & Product Manager, Stages Recovery

10/2022 – 01/2024 | Philadelphia, PA

- Drove a mobile health application from initial concept to minimum viable product over roughly one year, coordinating a six-person in-house creative team and a network of specialized contractors
- Served as primary liaison between executive leadership (CEO, CFO, CTO), the creative team, and an offshore software development team in Pune, India, translating creative and strategic decisions into technical requirements across time zones
- Owned end-to-end project management using Favro, structuring workflows and sequencing deliverables to keep a distributed team on schedule through MVP

Business Manager, Grayson Sky

08/2019 – 01/2023 | Philadelphia, PA

- Led account strategy for up to ten concurrent clients, running discovery sessions to define brand identity and translating client vision into creative direction for a six-person design team and contractor network
- Directed brand development, market research, and competitor analysis across clients spanning numerous industries, shaping positioning and campaign strategy from research through execution
- Retained nearly all managed accounts across a multi-year tenure, sustaining long-term client relationships in a high-turnover agency environment
- Founded an independent LLC (Viridian Financial) and built financial models for an early-stage startup client, producing projections that supported a successful seed round raising \$1M in funding

Data Analyst, GroupSense

04/2020 – 09/2020 | Arlington, Virginia

- 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

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)

Technical Skills

Research Methods & Tools: Informed grounded theory (Gioia methodology); open, axial, and selective coding; survey and study design; Qualtrics, Prolific, Zotero, Excel-based qualitative codebooks

Programming & Data: Python, R, SQL, JavaScript, HTML/CSS

Certifications

Certified Information Systems Auditor Associate, ISACA | Security+, CompTIA