

Timothy Peine

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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. (2027). The Calibration Gap: How Cognitive Regulation Converts Generative AI Adoption into Organizational Performance *∅*. Accepted, *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). Generative AI and the Reorganization of Human Cognition: The Augmented Cognitive Extension Model *∅*. 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 six manuscripts, extending the framework from individual cognition (HCII, ECIS) to agentic delegation (AMCIS)
- 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,

08/2025 – 05/2026 | 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, San Diego State

08/2025 – 05/2026 | San Diego, CA

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

Technology Assurance Associate, KPMG

08/2026 – Present | San Diego, CA

- Test IT general controls (access, change management, computer operations) and application controls for SOX and SOC clients in healthcare, asset management, real estate management, and insurance, across environments of up to 20 systems including SAP, Oracle, and Workday
- Run walkthroughs with client IT and process owners, documenting control gaps for engagement teams and clients
- Wrote an 18-page CISA exam guide for the Pacific Southwest Technology Assurance team and presented it to 30 associates at an office director's invitation
- Technology Assurance Intern (06/2025 – 08/2025); received return offer

Operations & Product Manager, Stages Recovery

10/2022 – 01/2024 | Philadelphia, PA

- Translated decisions from the CEO, CFO, and CTO into technical requirements for an offshore development team in Pune, India, working across time zones
- Took a health-tech SaaS product from concept to MVP in about a year, coordinating a six-person creative team and specialist contractors
- Ran end-to-end project management in Favro, 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 10 concurrent clients, running discovery sessions and turning client goals into creative direction for a six-person design team
- Ran market research and competitor analysis that shaped brand positioning and campaign strategy for clients in SaaS, healthcare, fashion, and beverage alcohol
- Retained 12 of 13 accounts over three-plus years at an agency with high client turnover

Founder, Viridian Financial

09/2021 – 06/2022 | Philadelphia, PA

- Built financial models for an early-stage startup client that supported a \$1M seed round

Data Analyst, GroupSense

04/2020 – 09/2020 | Arlington, Virginia

- Analyzed large datasets with Python, Spark, and Hadoop to support data breach mitigation at a cybersecurity firm

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