CV updated

Daniel Pace
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Education
B.S. Psychology (Expected Winter 2026), Southern Oregon University, Ashland, OR

- GPA: 3.83
- Relevant Coursework: Research Methods, Cognitive Psychology, Neuroscience, Statistics, Learning & Cognition
- Associate of Arts Oregon Transfer, Linn-Benton Community College (GPA: 3.92)

Research Interests

- Decision-making under uncertainty and structural integrity in information environments
- Cognitive scaffolding and interface design for neurodivergent users (ADHD/ASD-informed)
- Human-AI interaction, theory of mind, and AI-native ethical systems
- Computational modeling of cognition, emergent systems, and cognitive error typology
- Engineering psychology applied to decision science and hybrid technology design

Research Experience
AI Learning Assistant, Research & Policy — Southern Oregon University (2024–2025)

- Designed AI-integrated learning tools and policy protocols, including metacognitive scaffolds, sentiment analysis pipelines, and ethical safeguard evaluations (OpenAI Safety Program)
- Co-authored institutional whitepapers on AI ethics and academic integrity; translated findings into actionable policy

Computational Research Projects
Structural Coherence Framework for Decision Analysis (2023–Present)

- Built and deployed a decision analysis framework using five structural dimensions; implemented cross-domain toolkits for stability evaluation and policy design

Relational Coherence Navigator (CoNav) (2024–Present)

- Browser-based application to guide decision-making with relational coherence modeling

- Integrated with LLM-based assistants to enhance reasoning scaffolds across varied decision contexts

Emergence Engine (E²) — Agent-Based Cognitive Simulation (2023–Present)

- Developed cognitive simulation modeling adaptive heuristics and attention dynamics
- Demonstrated emergent phase transitions, collective behavior, and ND strategy differentiation under constraint

ACE (Adaptive Cognitive Enhancement) (2024–Present)

- Built a gamified task-tracking tool for executive function support using Next.js and Supabase
- Incorporated adaptive reinforcement, task decomposition, and real-time feedback scaling

Mindi — AI-Driven Chatbot & Cognitive Assistant (2024–Present)

- Developed interface for AI-augmented note-taking and episodic memory support in ADHD populations
- Designed to scaffold executive function and reduce cognitive load in self-directed learning

Community Engagement & Applied Cognitive Systems
Cognitive Systems Research Facilitator, Student Success & Behavioral Education (2023–2024)

- Led cognitive systems analysis for student behavior, conflict, and policy alignment
- Managed residential learning environments integrating individual autonomy with social coherence principles

Publications & Scholarly Output

- Pace, D. (2024). *Rethinking Academic Integrity in the Age of AI*. Southern Oregon University.
- Pace, D. (2024). *Proposal for OpenAI's Safety Testing Program*. Southern Oregon University.
- Pace, D. (2024). *Human-AI Creative Collaboration Framework (HAIC)*.
- Pace, D. (2024). *Cognitive Theories, Attention Dynamics, and Memory Mechanisms*. Poster presented, SOU.

Research Methods Training

- Digital Therapy Interventions & Student Stress: CBT-style digital supports, stress measurement, usability

- Frustration & Mood in ASD: Literature synthesis, sensory load modeling, cognitive-affective mapping

Technical Skills

Human-Centered Design & Interface Research:

- Cognitive Scaffolding, User-Centered System Design, Usability Evaluation

Computational Modeling & Development:

- Agent-Based Modeling, Python, JavaScript, MATLAB, VBA
- Reinforcement Learning, LLM Integration, Simulation Design

Data Analysis & Statistics:

- Visualization, Regression, Sentiment Modeling, z-Scores, Test Classification
- Tools: Pandas, NumPy, Excel, SQL, Qualtrics

Research Methodologies:

- Experimental Design, Cognitive Modeling, Mixed Methods Synthesis
- Human-AI Interaction, Ethics Analysis, System Architecture Design

Professional Experience

Data Systems & Process Analyst — Palm Harbor / Cavco Manufacturing (2022–Present)

- Built AI-enhanced workflow tools for document reconciliation, payroll automation, and cognitive load reduction
- Developed decision-support interfaces aligned with behavioral psych principles

Practicum Student — Jackson Street Youth Services (2024)

- 150+ hours supporting client data systems, documentation UX, and workflow design

Awards & Honors

- Peak Student of the Year, Southern Oregon University (2024–2025)
- Phi Kappa Phi Honors Society Member
- Provost’s List (Spring 2025, Fall 2024)

Professional Development

- Google Data Analytics Professional Certificate (Coursera)

References available upon request.