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) (2025)
  - 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 (E^2) — Agent-Based Cognitive Simulation (2025)

  - 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)

  - 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)

  - 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 Development & Applied Psychology Experience

Community Developer & Leadership Educator

Campus.Ambassadors·.Campus746.(8679- Present)

- Designed and facilitated group decision-making processes and conflict resolution frameworks for college student communities across 4 university campuses, observing how structural interventions affect decision quality under high uncertainty and social complexity

- Applied principles of behavioral psychology, group dynamics, and organizational development in real-time settings, developing practical understanding of how environmental structure affects cognition and behavior in naturalistic contexts

- Developed leadership training curriculum emphasizing executive function scaffolding, systems thinking, and adaptive decision-making strategies

- Co-managed residential community program (8-person capacity) creating structured living environments that balanced individual autonomy with collective coordination

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 (2017–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 (2025)

- 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¡