

# CALEB OWEN

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## **SUMMARY**

Dedicated Psychology graduate seeking a PhD in Psychology with hands-on experience in data analysis, teaching, behavioral interventions, and research support. Skilled in various data analysis tools, statistical methods, and experimental protocols, with a proven history of collaborating across research labs and clinical settings. Committed to advancing understanding through research and data-driven insights in intersectional psychological fields.

## **EDUCATION**

University of Connecticut, Storrs Mansfield, CT May 2024  
Bachelor of Arts in Psychological Sciences

University of Connecticut, Storrs Mansfield, CT August 2025-Present  
Doctorate of Philosophy in Experimental Psychology

## **RESEARCH EXPERIENCE**

**Graduate Research Assistant** | Dyscord Lab, Storrs Mansfield, CT August 2025-Present

- Engaged in doctoral training in Ecological Psychology, focusing on motivation, interpersonal coordination, and adaptive AI-driven tools to enhance cooperation in educational settings.
- Conduct literature reviews across cognitive science, education, and human-AI interaction to refine research questions and identify methodological approaches.
- Develop and pilot research designs connecting lab-based measures of coordination (e.g., synchrony, role dynamics) with classroom collaboration outcomes.
- Build expertise in experimental design, mixed-methods approaches, and analysis of large-scale behavioral datasets (SPSS, R, Python).
- Prepare early-stage fellowship applications and proposals to support dissertation work on how adaptive systems can improve group decision-making and social identity processes in learning environments.
- Collaborate with faculty mentors and peers to align research with departmental goals, contribute to lab meetings, and present preliminary findings in academic settings.

**Data Fellow** | Child Health & Development Institute, Farmington, CT June 2024-August 2025

- Designed and deployed interactive Power BI dashboards that improved stakeholder visibility into key behavioral health metrics, enabling leadership to identify disparities across race/ethnicity and take targeted action.
- Led statistical analyses in SPSS on statewide behavioral health datasets, uncovering trends and performance gaps that informed quality improvement initiatives and policy recommendations.
- Produced high-impact performance reports translating complex analyses into actionable insights, directly influencing program evaluation and decision-making at the state level.
- Collaborated with internal teams and state partners to develop data-driven strategies for improving service delivery and equitable access to behavioral health interventions.
- Applied principles of data ethics, equity, and inclusion across the analysis pipeline and visualization choices to ensure findings accurately represented diverse populations.

- Received, cleaned, and standardized multi-source provider exports; built reproducible pipelines (SPSS syntax, Excel/Power Query) to resolve missingness, correct entry errors, and harmonize codes across years.
- Built multi-table data models and DAX measures for triage/medical clearance, assessment completion, timeliness, and equity indicators (e.g., by referral source and emergency department), with drill-downs by race/ethnicity, language, and geography.
- Responded to ad hoc requests with fast-turn analyses; presented findings to providers and state stakeholders and contributed to contract deliverables and publication-ready materials.

**Undergraduate Research Assistant** | LORE Lab, Storrs Mansfield, CT      September 2023-May 2024

- Conducted participant sessions, managing the collection of behavioral responses, eye movement data, and scans in line with established lab protocols, ensuring high-quality data.
- Proficiently utilized R to perform advanced statistical analyses, including regression, ANOVA, and factor analysis, exploring complex relationships within experimental data to support lab goals.
- Executed coding and analytical processes to identify significant results, directly contributing to the lab's overarching research objectives.

**Undergraduate Research Assistant** | Condon Lab, Storrs Mansfield, CT      September 2023-May 2024

- Collaborated closely with Dr. Eileen Condon to develop an independent research project exploring culturally tailored interventions to improve sleep health in underrepresented communities.
- Conducted comprehensive reviews of recent literature on topics such as posttraumatic stress disorder symptoms, adverse childhood experiences, and sleep disturbances to identify gaps and refine research questions.
- Worked with research team members and consulted with lab collaborators to organize biomarker data, specifically salivary interleukins and cortisol, to support research on stress biomarkers.
- Investigated relationships between child and adult sleep/rest-activity patterns and stress biomarkers, contributing to hypothesis development and study design.

**Undergraduate Research Assistant** | EMPOWER Lab, Storrs, CT      September 2022-December 2024

- Conducted comprehensive literature reviews, examining existing research and synthesizing findings to inform project directions effectively.
- Led team meetings focused on literature discussions and weekly tasks, facilitating alignment with project objectives and timelines.
- Organized and steered in-depth discussions, offering insights that contributed to the development and refinement of project strategies.
- Actively engaged with team members to ensure clarity on objectives, provided valuable feedback, and supported a collaborative environment that fostered academic rigor and progress.

## **LEADERSHIP & RELATED EXPERIENCE**

**Teaching Assistant** | University of Connecticut, Department of Psychological Sciences. PSYC 1100: General Psychology Laboratory August 2025– Present

- Lead weekly lab sections for 25+ undergraduate students, facilitating active learning and hands-on engagement with psychological concepts.
- Guide students through experimental design, data analysis, and scientific writing, connecting lab activities to lecture material.
- Provide feedback on lab reports and assignments, helping students strengthen their APA writing, statistical reasoning, and critical thinking skills.
- Hold regular office hours to mentor students, answer course-related questions, and support success in psychology coursework.
- Collaborate with course faculty to align lab activities with broader learning outcomes and ensure consistency across multiple sections.

**Behavioral Technician** | ABLE Home Health Care, Manchester, CT September 2023 – June 2024

- Developed personalized behavior intervention plans, using positive support strategies to encourage desired behaviors.
- Facilitated social skills training and employed AAC methods to enhance communication.
- Used data-driven monitoring for ongoing evaluation of therapeutic strategies.

**Behavioral Technician** | Connecticut Behavioral Health, East Haven, CT May 2023 – May 2024

- Conducted behavioral assessments in collaboration with school personnel to implement tailored behavior plans.
- Supported crisis management, using de-escalation strategies and positive reinforcement to promote social-emotional development.

**Mathematics Tutor** | OpenLiteracy, Pittsburgh, PA September 2023 – May 2024

- Created customized lesson plans to strengthen mathematical fundamentals and problem-solving skills.
- Engaged with parents and teachers to ensure alignment with classroom objectives.
- Employed interactive exercises, visual aids, and educational software to enhance comprehension in areas like algebra, geometry, calculus, and statistical analysis
- Tracked and assessed student progress, providing feedback tailored to support continuous improvement and mastery of mathematical concepts..

## **ADDITIONAL EXPERIENCE**

**Student Admin Assistant** | Academic Achievement Center Office, UConn October 2022 – May 2023

- Managed records and appointments for over 500 students, maintaining high attention to detail and confidentiality in compliance with FERPA.

**First Year Mentor** | First Year Experience Program, UConn August 2022 – December 2022

- Mentored 17 first-year students, creating personalized action plans, leading to improvement in academic performance among mentees.

## **SCHOLARSHIPS**

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### **New Haven Promise Scholar**

August 2020 – May 2024

- Recognized for academic achievement and community involvement by New Haven Promise, supporting postsecondary education for New Haven students.

## **SKILLS**

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- **Software:** SPSS (syntax), R (tidyverse), Python (pandas), Power BI (DAX, data modeling), Excel (power query), Qualtrics/Alchemer
- **Behavioral Assessment:** Experience in research lab settings, clinical and school settings, skilled in BIP development, crisis management, and AAC methods
- **Research:** Proficient in experiment design, data collection, statistical analysis, and literature review.
- **Teaching and Mentorship:** Experience in tutoring and mentoring students, developing customized lesson plans, and adapting instructional approaches to different learning levels and styles.
- **Data Cleaning and Preparation:** Proficient in data preprocessing techniques, including handling missing data, correcting errors, merging datasets, and ensuring data integrity.
- **Analysis & Stats:** GLM/ANOVA, mixed models, factor analysis, reliability, propensity matching, power analysis
- **Visualization & Reporting:** Power BI dashboards, APA figures/tables, stakeholder briefs