

CARLENE BROWN, PH.D.

970-768-5001 | carlenebrown589@gmail.com

www.linkedin.com/in/carlenebrown589 | <https://github.com/Carley589>

Greeley, Colorado 80634

Versatile mixed methods researcher with demonstrated expertise in both quantitative and qualitative methodologies, from study design and data collection to advanced analysis and visualization. Proficient in tools such as R, SPSS, NVivo, SQL, Tableau, and Mplus, with applied experience using logistic regression, ANOVA, qualitative analysis, and AI-assisted qualitative techniques. Adept at integrating diverse methodological perspectives to produce actionable insights in public health, education, and behavioral research. Recognized for strong analytical thinking, clear research communication, and a commitment to rigor, ethics, and innovation throughout the research process.

SKILLS

Statistical Analysis & Research Methods: Quantitative Analysis | Qualitative Analysis | Mixed Methods | Thematic Analysis | Narrative Analysis | Logistic Regression | Linear Regression | ANOVA | Psychometrics | Survey Design | Program Evaluation

Data Tools & Software: R | SPSS | SAS | SQL | Excel | NVivo | Tableau | Mplus | Qualtrics | GitHub

Research & Instruction: Research Design | Curriculum Development | Data Visualization | AI in Research | IRB Protocols | Research Ethics | Academic Writing | Online & In-Person Teaching

Professional Experience: Graduate-Level Instruction | Academic Coaching | Stakeholder Communication | Webinar Facilitation | Content Development | Literature Review | Interviewing & Transcription

AI & Technology Integration: AI-Assisted Thematic Analysis | Prompt Engineering | ChatGPT for Research | Comparative Method Analysis

Languages & Communication: Strong Written & Verbal Communication | Public Speaking | Manuscript Preparation | Conference Presentations

EDUCATION

PH.D. - APPLIED STATISTICS & RESEARCH METHODS

University of Northern Colorado | 2024

MASTER OF SCIENCE - APPLIED STATISTICS & RESEARCH METHODS

University of Northern Colorado | 2021

BACHELOR OF ARTS - PSYCHOLOGY

Summa Cum Laude

University of Northern Colorado | 2019

RELEVANT COURSEWORK

Statistical Analysis & Research Methods: Classical Test Theory | R | SPSS | SAS | SQL | Advanced Statistical Data Analysis | Advanced Statistical Programming | Latent Variable Modeling | Applied Multiple Regression | Survey Research Methods | Structural Equation Modeling | Advanced Research Methods | Research & Statistical Consulting | Data Analysis for Decision-Making

Evaluation: Evaluation Model & Design | Advanced Evaluation Methods

Qualitative Research Methods: Qualitative Analysis Software | Case Study | Narrative Research | Educational Ethnography | Writing Qualitative Research | Research Ethics

WORK EXPERIENCE

FREELANCE RESEARCHER, DATA ANALYST, & COMMUNITY STRATEGIST

Self-Employed

December 2024 – Present

- Conduct literature reviews, contribute to manuscript development, and support data analysis (qualitative and quantitative) for collaborative research projects with university-affiliated scholars.
- Assist with survey development, qualitative analysis, and integration of findings across interdisciplinary studies.
- Collaborate with faculty on preparing manuscripts for publication and conference presentations, contributing to the interpretation and framing of results.
- Manage content strategy and community engagement for a global Qualitative Research Facebook group with 44,000+ members.
- Create educational posts, moderate discussions, and support members through resources, live events, and professional networking opportunities.
- Host and co-facilitate Facebook Live events featuring guest scholars, supporting the dissemination of public scholarship and knowledge.
- Lead marketing and outreach initiatives, using group insights to shape member engagement and communication efforts.
- Explore the use of AI tools and prompt engineering to enhance research workflows and content curation.

GRADUATE RESEARCH ASSISTANT

University of Northern Colorado

August 2021 - December 2024

- Secured ethics approval (IRB) for multiple research studies, ensuring compliance with human subjects protocols.
- Conducted comprehensive literature reviews to support mixed-methods research design and analysis.
- Reviewed and edited scholarly manuscripts for academic publication.
- Designed and administered surveys; managed full data lifecycle including collection, cleaning, coding, and analysis (quantitative and qualitative).
- Conducted and transcribed in-depth qualitative interviews, applying thematic and narrative analysis methods.
- Created data visualizations to communicate research findings for diverse audiences.
- Developed strategic participant recruitment plans to meet study enrollment goals.
- Contributed to manuscript writing, formatting, and reference management for peer-reviewed journals.
- Prepared research posters and materials for academic conferences and symposiums.
- Collaborated across interdisciplinary research teams to coordinate study implementation and dissemination.
- Facilitated educational webinars on qualitative research best practices and methodology.
- Led content strategy and community growth for a global Qualitative Research Facebook group, scaling membership from 2 to 44,000+ members.
- Hosted live interactive sessions to engage global researchers and support qualitative research learning.
- Developed and administered IRB-compliant survey instruments.
- Coordinated informed consent and documentation for co-authors contributing to a published qualitative research textbook.

WORK EXPERIENCE

GRADUATE TEACHING ASSISTANT

University of Northern Colorado

August 2021 - December 2024

- Taught and supported instruction across multiple modalities, including in-person, asynchronous, synchronous online, and hybrid courses.
- Assisted in the development and implementation of syllabi and course materials, aligning content with program standards and learning objectives.
- Created and curated instructional content (presentations, handouts, assignments) to support diverse learning styles and enhance student engagement.
- Delivered lectures and facilitated interactive discussions to promote critical thinking and application of course concepts.
- Graded assignments, exams, and papers; provided formative, constructive feedback to support student learning and performance.
- Guided students through collaborative group projects, emphasizing teamwork, applied learning, and research methodology.
- Developed and distributed weekly communications to promote student accountability and maintain consistent engagement.
- Held regular office hours to provide individualized support and mentoring, including guidance on research design and data interpretation.
- Supported the use and troubleshooting of instructional technologies, including learning management systems and video conferencing platforms.
- Responded to student inquiries professionally, fostering a supportive and inclusive learning environment.
- Reviewed student IRB applications (omnibus protocols), reinforcing ethical research practices and methodological soundness.

RESEARCH CONSULTANT

University of Northern Colorado

August 2022 - December 2022

- Advised undergraduate and graduate students on research design, methodology selection, and refining research questions across qualitative, quantitative, and mixed methods studies.
- Provided training and support in data collection techniques, including survey design, interview protocols, and observational methods, to ensure methodological rigor and validity.
- Assisted clients in interpreting both qualitative and quantitative data, offering guidance on analysis techniques such as coding, thematic analysis, statistical modeling, and data visualization.
- Collaborated with faculty and research advisors to address complex research challenges and develop innovative, evidence-based solutions across diverse disciplines.
- Participated in research lab meetings, workshops, and professional development events to expand methodological knowledge and continuously enhance consulting services.

CO-INSTRUCTOR

University of Northern Colorado

August 2023 - December 2024

Courses: SRM 680 – Introduction to Qualitative Research | SRM 660 – Mixed Methods Research

- Delivered lectures on foundational and advanced topics in qualitative and mixed methods research, aligning content with course learning objectives.
- Facilitated student-led discussions and presentations on key topics in qualitative and mixed methods research, encouraging critical analysis and methodological reflexivity.

WORK EXPERIENCE

- Provided individualized support to students conducting qualitative research projects, including guidance on data collection, coding, and interpretation.
- Collaborated with faculty to integrate qualitative and mixed methods principles into interdisciplinary coursework and course design.
- Designed and implemented assessment strategies to evaluate students' understanding and application of qualitative research methods.
- Contributed to the development and revision of instructional materials to reflect emerging trends and innovations in qualitative inquiry.
- Supported students in preparing manuscripts and presentations derived from their research for publication and academic conferences.
- Engaged in ongoing professional development to remain current on best practices in qualitative and mixed methods research pedagogy.

DATA ANALYST

University of Northern Colorado

August 2021 - December 2021

- Conducted in-depth analysis of both quantitative and qualitative survey data, including thorough data cleaning and preparation to ensure validity and reliability.
- Collaborated with team members to develop reports that translated complex data into actionable insights aligned with organizational goals.
- Created clear and impactful data visualizations to support understanding of key findings and facilitate evidence-based decision-making.
- Effectively communicated research outcomes and strategic recommendations to stakeholders, bridging technical results with practical applications across teams.

ADMINISTRATIVE OPERATIONS MANAGER

Fiberlink Connection

March 2005 - August 2019

- Oversaw daily business operations, including customer service, billing, and administrative workflows, ensuring organizational efficiency and service continuity.
 - Managed financial functions such as budgeting, payroll, accounts payable/receivable, and financial reporting to support fiscal accountability and informed decision-making.
 - Delivered high-quality customer support by resolving service and billing inquiries, enhancing client satisfaction, and retention.
 - Supervised, trained, and mentored office staff, fostering a collaborative and high-performing team environment.
 - Streamlined billing operations and implemented process improvements to enhance accuracy, efficiency, and timeliness in financial transactions.
 - Collaborated with technical teams to ensure rapid resolution of service issues and uphold service quality standards.
 - Developed and enforced operational policies and procedures to promote compliance, accountability, and operational excellence.
 - Prepared detailed operational and financial reports for senior leadership to support strategic planning and data-informed business growth.
 - Contributed to organizational scalability by adapting workflows and systems in response to evolving industry demands and growth objectives.
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SCHOLARSHIP - PUBLICATIONS & PRESENTATIONS

PUBLICATIONS

- Tsai, C.-L., Estrada, S., Ku, H-Y., & Brown, C. (April 2025). Perceived Online Instructional Context and Learning Outcomes among First-Generation and Continuing-Generation College Students. **American Educational Research Association Annual Conference**, Denver, CO.
- Tsai, C.-L., Estrada, S., Flores, L. Y., & Brown, C. (2023). Motivation, college integration, and intentions to persist among first-generation college students: A latent class approach. *Journal of Career Development*, 50(5), 1116–1136. <https://doi.org/10.1177/08948453231157757>
- Lahman, M. K. E., & Brown, C. J. (2022, August 3). Sensitive research and the COVID-19 pandemic [Blog post]. **Sage Research Methods Community**. <https://researchmethodscommunity.sagepub.com/blog/wa0tsrbtntl66qc6qcqyyx2dcjkpm?rq=Sensitive+Research+and+the+COVID-19+Pandemic>
- Lahman, M. K. E., & Brown, C. (2024, March 11). Aspire higher - beyond basic research ethics [Blog post]. **Sage Campus**. <https://campus.sagepub.com/blog/beyond-basic-research-ethic>
- Co-authored Communication Science Research Ethics Handbook chapter (Not yet published).
- Developed and composed glossary content for the Qualitative textbook, **An Introduction to Qualitative Research: Becoming Culturally Responsive**. (2024).
- Author of a textbox in *An Introduction to Qualitative Research: Becoming Culturally Responsive*. (2024).
- Brown, C. J. (2024). Journey of decisions: Understanding parental perspectives on vaccine hesitancy and decision-making approaches in childhood vaccinations (Doctoral dissertation). University of Northern Colorado. <https://digscholarship.unco.edu/dissertations/1119>

PRESENTATIONS

- Brown, C. "An Autoethnography of Stay-at-Home Mothers Entering Higher Education and the Workforce Later in Life," Research Evening, University of Northern Colorado, (May 2020).
 - Brown C., Manzanares, A., Avila, B. "The Effect of Test Preparation on Student Test Scores," Research Evening, University of Northern Colorado, (December 2021).
 - Brown, C. "Examining Divergent Characteristics of Compliant and Non-Compliant Patients to Doctor Recommendations for Modifiable Lifestyle Behaviors," Research Evening, University of Northern Colorado, (December 2021).
 - Brown, C., Wiggins, K. "A Contemporary Snapshot of Feminist Ethnography," Research Symposium, University of Northern Colorado, (December 2022).
 - Brown, C. "Dietary Patterns and Health Literacy," Research Symposium, University of Northern Colorado, (December 2022).
 - Henderson, J., Zoucha, J., Brown, C., Thorne, W. "Measuring the Effects of the TRIO Program and Higher Education on Agency for Learning among College Students," Research Symposium, University of Northern Colorado, (May 2023).
 - Brown, C., Owusu, G., Essel-Kaitoo, E. "Moderating Effects of Nutrition on the Relationship Between Adverse Childhood Experiences and Health-Related Quality of Life," Research Symposium, University of Northern Colorado, (May 2023).
 - Brown, C. "Women in Statistics," Research Symposium, University of Northern Colorado, (May 2023).
 - Brown, C. "Beyond Grief: A Case Study Examining Perspectives of Vaccine Hesitancy in Bereaved Parents and Grandparents," Research Symposium, University of Northern Colorado, (December 2023). Accepted for Spring 2023 The Qualitative Report Conference, Fort Lauderdale, Florida.
 - Brown, C. "Ethically Navigating Mixed Methods Research: Prioritizing Person-Centered Research Ethics," Research Symposium, University of Northern Colorado, (Spring 2024).
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AI EXPERIENCE

- Delivered a Facebook Live presentation on AI-assisted thematic analysis to a global qualitative research community of 44,000+ members, highlighting practical applications of AI in public health research (Oct 2024).
 - Presented “Leveraging Artificial Intelligence to Enhance Qualitative Insights in Public Health” at the Asian Society for Productivity in Research Education, showcasing dissertation findings on AI-integrated analysis methods (May 2024).
 - Featured speaker for “AI as a Research Tool: Strategies, Tips, & Ethical Concerns” during the Fall Webinar Series hosted by the Centers for Enhancement of Teaching and Learning (Nov 2024).
 - Employed AI throughout dissertation research to develop interview guides, conduct human vs. AI-assisted thematic analyses using custom prompt engineering, and evaluate findings using a structured rubric, advancing methodological innovation in mixed methods research (Aug 2024).
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AWARDS

- Phi Theta Kappa Honor Society - 2017 & 2018
 - Mary A. Behling Scholarship - 2018
 - Cheryl Fagerberg Memorial Scholarship - 2022
 - Beatrice Heimerl Educational Research & Statistics Graduate Fellowship Scholarship - 2022, 2023, 2024
 - Graduate Dean’s Scholarship - 2022
 - College of Education & Behavioral Sciences - Applied Statistics & Research Academic Excellence - 2024
 - Graduate Dean’s Citation for Excellence - 2024
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PROFESSIONAL ORGANIZATIONS

- Mixed Methods International Research Association
 - American Statistical Association
 - Qualitative Research Consultants Association
 - Psychometric Society
 - Qualitative Research Connect
 - International Advisory Board Member - Early Career Development
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VOLUNTEER WORK

Denver Day of Dignity

- Provided compassionate support and assistance to homeless individuals, including distributing food, clothing, and hygiene kits.
- Connected individuals with available resources and support services.
- Helped create a welcoming and inclusive environment for participants, fostering a sense of dignity and respect for all individuals served.

Moderator for Research Symposium Presentations

- Facilitated smooth and organized oral presentations by managing the flow of presentations, timing, and transitions between speakers.
- Ensured adherence to presentation guidelines and time limits, promoting professionalism and efficiency throughout the symposium.
- Fostered an interactive and supportive environment for presenters by facilitating Q&A sessions and encouraging audience participation.

Graduate Research Evening Judge

- Judged graduate research presentations and posters using a structured evaluation rubric.
- Collaborated with fellow judges to determine award recipients under time-sensitive conditions.
- Engaged with diverse students, offering supportive feedback during a high-stress academic event.

Co-Chair, Weldon Valley Accountability Committee

- Conducted comprehensive curriculum evaluations to assess content effectiveness and make recommendations for improvement.
- Orchestrated various recognition events, including Honor Roll Awards, Teacher/Staff Appreciation, and Volunteer Appreciation.
- Coordinated Warrior of the Month Awards and End of the Year Picnic celebrations to honor student and staff achievements.

Teacher's Aid Weldon Valley School

- Provided support in reading, writing, and math to enhance student learning outcomes.
- Assisted in grading assignments and tracking student progress.
- Chaperoned field trips, ensuring student safety and engagement.

Booster Club Weldon Valley School

- Led successful fundraising initiatives to support programs and activities.
- Organized and awarded scholarships to recognize outstanding achievements.
- Coordinated and executed homecoming events, fostering school and community spirit.
- Planned and hosted Breast Cancer Awareness Night to promote awareness and support.
- Managed concession stand operations during events to support team funding.
- Organized award dinners to celebrate achievements and milestones.
- Coordinated team dinners to strengthen camaraderie and team morale.

REFERENCES**MARIA K.E. LAHMAN, PH.D.****Associate Professor**

University of Northern Colorado

Colorado, USA

P: 970-351-1603

E: maria.lahman@unco.edu

RANDY LARKINS, PH.D.**Chair & Assistant Professor**

University of Northern Colorado

Colorado, USA

P: 970-351-1676

E: randy.larkins@unco.edu

CHIA LIN TSAI, PH.D.**Associate Professor**

University of Northern Colorado

Colorado, USA

P: 970-351-1774

E: chialin.tsai@unco.edu

KEVIN GITTNER, PH.D.**Assistant Professor of Biostatistics
& Epidemiology**

Kennesaw State University

Georgia, USA

P: 470-578-7896

E: kgittner@kennesaw.edu

ANNABEL LI, MA**Research Consultant**

University of Northern Colorado

Colorado, USA

P: 970-534-4280

E: annabel.li@unco.edu
