

Crystal Lewis

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I am a researcher with over ten years' experience in project coordination and supervision, as well as data management, analysis, and reporting. I am happiest working at the intersection of K-12 education research and data management planning, helping researchers and practitioners obtain insights that improve student outcomes through harmonized, reliable, and documented data. I am also passionate about helping others organize their data and reporting through reproducible workflows.

Technical Skills

R (data wrangling), R Markdown/Quarto (reporting), Qualtrics, Git and GitHub, SPSS, Microsoft Access, REDCap, FileMaker, Stata, Quick Base, SQL, SharePoint, Tableau

Education

University of Minnesota

MASTER OF PUBLIC POLICY

- Concentration: Advanced Policy Analysis

Minneapolis, MN

2009-2011

University of Missouri

BACHELOR OF SOCIAL WORK

- Concentration: Research Methods

Columbia, MO

2001-2005

Experience

Freelance

DATA MANAGEMENT CONSULTANT

- Providing research data management consulting, training, and data wrangling services to improve organizational workflows.

Remote

Mar 2022 - Present

Streamline Data Science

DATA SCIENTIST

- Created example client facing customer relationship management dashboard in R flexdashboard to demonstrate services.
- Built Google Trends interactive R flexdashboard to show capabilities of automatic updating data.

Remote

Nov 2021 - Mar 2022

Missouri Prevention Science Institute

DIRECTOR OF DATA STRATEGY

- Strategized data management plans for over ten externally funded projects and oversaw their implementation.
- Created standard operating procedures for all data management practices and provided annual staff training on systems.
- Merged, cleaned, queried, validated, and documented data collected from school districts, state education agencies, surveys, assessments, and observations using R.

University of Missouri

May 2019 - Nov 2021

DIRECTOR OF RESEARCH IMPLEMENTATION

- Supervised project staff, ensuring successful completion of data collection activities for six federally funded randomized controlled trial studies and two county funded projects.
- Designed and built data collection tools including Qualtrics surveys and Access tracking databases.
- Built reports, dashboards, and visualizations for dissemination of data.

Jul 2016-May 2019

RESEARCH ASSOCIATE

- Coordinated activities for two Institute of Education Sciences funded randomized controlled trial studies.
- Collected data in schools through classroom observations, surveys, and assessments.
- Established trusting relationships with school district partners.

Aug 2013 - Jul 2016

Big Brothers Big Sisters of Eastern Missouri

EVALUATION AND OUTCOMES MANAGER

- Oversaw the collection, analysis, and dissemination of data relating to performance management, outcomes, and stakeholder satisfaction.

St. Louis, MO

Jun 2011 - Aug 2013

Center for Advanced Studies in Child Welfare

RESEARCH ASSISTANT

- Evaluated the effectiveness of the Hennepin County Attorney's Office truancy intervention program using qualitative and quantitative methods.

University of Minnesota

Jan 2010 - Jul 2011

Humphrey School of Public Affairs

TEACHING ASSISTANT

- Taught lab sessions of a graduate level introductory statistics course using Stata.

University of Minnesota

Aug 2010 - Dec 2010

Hennepin-University Partnership

GRADUATE ASSISTANT

- Connected County officials with University faculty to develop effective partnerships to improve the community.

University of Minnesota

Sep 2009 - May 2010

Service

POWER Issues in Data Management in Education Research Hub

CO-ORGANIZER

- Organize and host monthly meetups and presentations on data management topics for a group of researchers and data managers in the field of education.

Remote

Jan 2022 - Present

R-Ladies St. Louis

CO-ORGANIZER

- Organize and host monthly workshops on programming in R.

St. Louis, MO

Aug 2020 - Present

Center for Open Science Unconference on Open Scholarship Practices in Education

ADVISORY COMMITTEE MEMBER

- Assisted in planning the 2023 event.

Remote

Oct 2022 - Mar 2023

RStudio Conference

TEACHING ASSISTANT

- Teaching Assistant for What They Forgot to Teach You About R Workshop.

Washington D.C.

July 2022

LaunchCode

TEACHING ASSISTANT

- Developed curriculum and taught data analysis once a week for a cohort of 25 women looking to make a career transition.

St. Louis, MO

Jan 2018 - July 2018

AmeriCorps St. Louis Education Team

TEAM LEAD

- Tutored elementary students, led educational programming, and supervised a team of three tutors.

St. Louis, MO

Aug 2007 - Aug 2008

Data Manager for the Following Grants

Boone County Children Services Fund: The FACE of Boone County, PI: Aaron Thompson, (2020-2024)

Institute of Education Sciences: Enhancing the Capacity of Rural Schools to Identify, Prevent, and Intervene in Youth Mental Health Concerns: The National Center for Rural School Mental Health, PI: Wendy Reinke, (2019-2024) (R305C190014)

Institute of Education Sciences: Efficacy study of Discipline in the Secondary Classroom, PI: Carl Sumi, (2018-2023) (R305A170040)

National Institute of Justice: Evaluation of a principal training program to promote safe & civil schools, PI: Keith Herman, (2017-2021) (2016-CK-BX-0004)

Institute of Education Sciences: Evaluation of a training program to promote effective school leadership, PI: Keith Herman, (2017-2022) (R305A170180)

Institute of Education Sciences: Implementing a comprehensive data-based coordinated System of care for school districts to promote youth academic success and social emotional development: A researcher-practitioner partnership, PI: Wendy Reinke, (2017-2019)

Institute of Education Sciences: Evaluation of a self-monitoring training program for elementary school students, PI: Aaron Thompson, (2015-2019) (R305A150517)

Boone County Children's Services Fund: Boone County Mental Health Coalition County-wide Initiative to Support School-age Youth, PI: Wendy Reinke, (2014-2020).

Institute of Education Sciences: The Classroom Check-Up: Supporting teachers in classroom management using a web-based coaching system, PI: Wendy Reinke, (2013-2018) (R305A130375)

Institute of Education Sciences: Evaluation of a classroom management training program for middle school teachers, PI: Keith Herman, (2013–2018) (R305A130143)

Institute of Education Sciences: Evaluation of a Video-based Modeling Program to Promote Effective Teacher Classroom Management Practices, PI: Wendy Reinke, (2010-2015) (R305A100342)

Publications

Lewis, C. (2024). *Data Management in Large-Scale Education Research*. CRC Press.

Cohen, D., Lewis, C.G., Eddy, C.L., Henry, L., Hodgson, C. & Huang, F.L. (2021) In-school and out-of-school suspension: Behavioral and psychological outcomes in a predominately black sample of middle school students. *School Psychology Review*, *School Psychology Review*, 52:1, 1-14.

Henry, L., Reinke, W.M., Herman, K.C., Thompson, A.M. & Lewis, C.G. (2020) Motivational interviewing with at-risk students (MARS) mentoring: Addressing the unique mental health needs of students in alternative school placements, *School Psychology Review*, 50:1, 62-74.

Huang, F., Lewis, C., Cohen, D., Prewett, S., & Herman, K. (2018). Bullying involvement, teacher-student relationships, and psychosocial outcomes. *School Psychology Quarterly*, 33(2), 223-234.

Lewis, C.G., Herman, K.C., Huang, F.L., Stormont, M., Grossman, C., Eddy, C., & Reinke, W.M. (2017). The utility of single-item readiness screeners in middle school. *Journal of School Psychology*. 64, 1–16.

Presentations

Lewis, C. (2024). *Data Cleaning for Data Sharing Using R*. Invited training for NCME Annual Meeting, Philadelphia, PA.

Lewis, C. (2023). *10 Common Data Management Mistakes*. Data Week, Alaska Region of Fish and Wildlife Service, Online.

Lewis, C. (2023). *Cleaning Medical Data in R*. R/Medicine Conference, Online.

Lewis, C. (2023). *Essential Data Management Best Practices and Tools for NIH Compliance Panel Discussion*. Center for Open Science, Online.

Lewis, C. (2022). *Data Management Workflows for Education Research Studies*. Guest lecture given to a graduate research methods class at the University of Houston-Clear Lake, Online.

Lewis, C. (2022). *10 Common Data Management Mistakes*. Presented for the University of Washington, SMART Center, Online.

Lewis, C. (2022). *10 Common Data Management Mistakes*. Presented for the Society for the Study of School Psychology, Early Career Foundation, Online.

Lewis, C. (2022). *A Comparison of Packages to Generate Codebooks in R*. A lightning talk for R-Ladies NYC, Online.

Lewis, C. (2021). *Data Management in Large-Scale Education Research*. Series of workshops given for Missouri Prevention Science Institute, University of Missouri, Columbia, MO.

Lewis, C. (2019). *Cleaning Messy Data in R*. Presented at R-Ladies St. Louis Meetup, Washington University in St. Louis.

Lewis, C. (2019). *Introduction to R*. Guest lecture for LaunchCode CoderGirl Data Analysis track, St. Louis, MO.

Lewis, C. (2018). *Survey Says: You can use Tableau to Impact School Climate*. Presented at Tableau Fringe Festival APAC, Online.