

Crystal Lewis

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I am an education researcher with 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, 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, SPSS, Qualtrics, Stata, Microsoft Access, Quick Base, SQL, Git and GitHub, Tableau, SAS, SharePoint

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

- Built example client facing crm dashboard in R flexdashboard to be used to publicize services.
- Ingested data sources to build an internal metric tracking R flexdashboard that was automated through Google Cloud Platform to update daily. The dashboard was used regularly by the sales team.
- Built google trends 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 actively funded projects and oversaw their implementation.
- Merged, cleaned, manipulated, queried, and documented data collected from school districts, state education agencies, surveys, assessments, and observations using R.
- Built reports, dashboards, and visualizations for dissemination of data.

University of Missouri

May 2019 - Nov 2021

DIRECTOR OF RESEARCH IMPLEMENTATION

- Supervised successful completion of data collection activities for six federally funded randomized controlled trial studies and two county funded projects.
- Delivered quarterly trainings to staff on data collection methods.
- Designed and built data collection tools including Qualtrics surveys and Access tracking databases.

Jul 2016-May 2019

RESEARCH ASSOCIATE

- Coordinated 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

ORGANIZER

- Organize and host monthly meetups and presentations on data management topics

Remote

Jan 2022 - Present

R-Ladies St. Louis

CO-ORGANIZER

- Organize and host monthly workshops

St. Louis, MO

Aug 2020 - Present

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

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*, DOI: 10.1080/2372966X.2020.1856628

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.

Larson, A., Singh, S. & Lewis, C. (2011). Sanctions and Education Outcomes for Children in TANF Families, *Child and Youth Services*, 32:3, 180-199.

Presentations

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.