

DUNCAN J. MAYER, Ph.D.

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PROFESSIONAL SUMMARY

I am social scientist with over 6 years of experience using rigorous research and evaluation methods to understand programs, policies, and behaviors. I have experience designing and leading projects with academic, government, and private sector stakeholders, in research, consulting, and technical assistance in such areas as child welfare and health, workforce and community development, and capacity building. I have extensive experience with all modes of evaluation including conceptualizing and executing formative, process, outcome, and impact evaluations. I excel at research dissemination and have communicated results and recommendations to diverse audiences with a range of technical sophistication.

Though skilled with a range of methodologies, I have developed expertise in a range of quantitative approaches. I use a modern computational workflow including version control, and am literate in R, SQL, as well as domain specific languages. I can quickly orient myself to new projects, and have experience working with diverse data sources: structured and unstructured data, as well as relational databases, administrative data, and surveys.

SKILLS

Quantitative: Survey Design, Instrument Development, (Generalized) Linear Models, Longitudinal Data Analysis, Hierarchical Models, Model Criticism, and Spatial Statistics

Qualitative: Focus Groups, Interviews, Content Analysis, and Case Studies

Programming: R (8 years) | SQL (4 years) | Stan (3 years) | Python (1 year)

PROFESSIONAL EXPERIENCE

[BeVera Solutions](#)

Statistician (full-time)

Atlanta, GA

Sept. 2022 – Present

As a statistician at a data science consulting firm I developed project proposals, including substantive and methodological elements. I led and managed the methodological development of 9 white papers related to federal health programs for the Centers for Disease Control and Prevention's [National Center for Infectious and Respiratory Disease](#), evaluating program efficacy and vaccine access (particularly American Indian and Alaska Native populations) with federal agencies and jurisdictions. This includes iterating with government stakeholders regarding questions, building and validating the required data sets by pairing public data with the CDC's administrative records, and translating their questions into quantitative results using a range of modeling and visualization strategies. I also led the development of technical assistance materials, including actionable recommendations, related to capacity building for jurisdictional and federal partners.

[Case Western Reserve University](#)

Research fellow (full-time)

Cleveland, OH

Aug. 2018 – June. 2022

As a research fellow with the [Center on Poverty and Community Development](#) I developed and managed a research portfolio focused on novel quantitative methodologies, data use and program evaluation, and empirical studies of the distribution of community resources using modern computational methods such as robust statistics, space-time interaction, and penalized splines. Examples include studies of the effects competition on nonprofits and elevated blood lead levels on juvenile delinquency. I conceptualized studies, constructed data sets from diverse public sources, built, evaluated, and interpreted models for longitudinal and multilevel data, and disseminated results in peer-reviewed articles and presentations. I independently procured over \$80,000 in competitively awarded support for independent research.

I delivered technical assistance, methodological support and consultation, for a range of evaluative projects housed in the Center on Poverty and Community Development. This included survey-based needs assessments for proposed educational programs, process evaluations of workforce development and community health programs, and evaluation capacity building for a range of nonprofits. Finally, I taught bachelors and master's level courses in research and community practice, and developed a programming course for the [data science for social impact](#) certificate.

[The Institute for Public Policy and Economic Development](#)

Wilkes-Barre, PA

Research Analyst (full-time) July 2017 – June 2018

As a research analyst at a community based research organization I co-authored and led data analysis for funded empirical research projects including an analysis of the region's workforce trends, out-migration of college graduates, outcome evaluations of apprenticeship and early education programs, as well as needs assessments for the United Way and the Area Agency on Aging. I regularly provided consultation and technical assistance to health and human service oriented nonprofits and foundations, including evaluation capacity building such as implementation and monitoring plans.

Marywood University Scranton, PA
Research Assistant (part-time) January 2017 – July 2017

While completing a masters degree I provided quantitative methodological support for a study of behavioral interventions and expulsion rates in childcare centers across northeast Pennsylvania. I managed the study's data collection, including administrative and survey data, analysis, visualization, and writing.

United Way of Lackawanna, Wayne, and Pike Counties Scranton, PA
Community Impact, Intern (Part-time) Sept. 2016 – June 2017

While completing a masters degree I worked with the region's United Way to provide technical assistance to grantees, enhancing their data capture and evaluation efforts. I analyzed educational assessments for change over time, educated partners on census products to understand the region, and developed briefs and primers for task forces focused on a range of social and health issues.

The Institute for Public Policy and Economic Development Wilkes-Barre, PA
Research Assistant, Intern (Part-time) Dec. 2016 – June 2017

In the time between finishing my bachelors and beginning my masters degree, I worked with a community based research organization contributing to funded research projects by collecting and analyzing survey data related to child welfare workforce development and satisfaction, and developing literature reviews related to kindergarten truancy and the effect of the coal economy on northeast PA.

United Neighborhood Centers of Northeast Pennsylvania Scranton, PA
Social Work, Intern (Part-time) Dec. 2015 – June 2015

During course work for a bachelors degree I worked with a local human service agency providing case management for clients in emergency situations such as utility shut-offs, eviction, and foreclosure.

Prevention Point Philadelphia Philadelphia, PA
Social Work, Intern (Full-time) May. 2015 – August 2015

While completing a bachelors degree I worked with a community health organization focused on harm reduction and substance use. I provided case management to a rotating caseload in a medication assisted treatment program, distributed resources, and managed inventory in the syringe exchange program.

EDUCATION

Case Western Reserve University Cleveland, OH
 PhD in Social Welfare (Completed June) 2023
Dissertation: Essays on Community-Organization Dynamics

Marywood University Scranton, PA
 Masters of Social Work 2017
Thesis: Evaluation Capacity; Structures, Stakeholders, Attitudes, and Environment

Bachelors of Social Work 2015

SELECT HONORS

Case Western Reserve University Social Justice Institute Research Fellow 2022-2023

Association for Research on Nonprofit Organizations and Voluntary Action Doctoral Fellow 2022

PUBLICATIONS

Peer-Reviewed Publications

Mayer, D. J. Groza, V. (in press). Promoting Children's Rights in Program Evaluation. *American Journal of Evaluation*.

Mayer, D. J., Fischer, R. L. (2023). Teaching Spatial Data Analysis; A Case Study with Recommendations. *Nonprofit Policy Forum*. DOI: [10.1515/npf-2022-0044](https://doi.org/10.1515/npf-2022-0044)

Mayer, D. J. (2023). Understanding Location and Density; A Spatial Analysis of Cuyahoga County Ohio's Nonprofit Sector. *Nonprofit and Voluntary Sector Quarterly*. DOI: [10.1177/08997640231171074](https://doi.org/10.1177/08997640231171074)

Mayer, D. J., Fischer, R. L. (2023). Exploring Niche Alteration in Nonprofit Organizations. *Administration and Society*. DOI: [10.1177/00953997231165255](https://doi.org/10.1177/00953997231165255)

Mayer, D. J. (2023). Social Capital and the Nonprofit Infrastructure; An Ecological Study of Child Maltreatment. *Journal of Community Psychology*. DOI: [10.1002/jcop.22984](https://doi.org/10.1002/jcop.22984)

Mayer, D. J. (2023). Understanding Social Disorganization and the Nonprofit Infrastructure; An Ecological Study of Child Maltreatment Rates. *Social Currents*. DOI: [10.1177/23294965231159317](https://doi.org/10.1177/23294965231159317)

Mayer, D. J. Fischer, R. L. (2023). Exploring Data Use in Nonprofit Organizations. *Evaluation and Program Planning*. DOI: [10.1016/j.evalprogplan.2022.102197](https://doi.org/10.1016/j.evalprogplan.2022.102197)

Mayer, D. J. (2022). Simmer Down Now! A Study of Revenue Volatility and Dissolution in Nonprofit Organizations. *Nonprofit and Voluntary Sector Quarterly*. DOI: [10.1177/08997640221126147](https://doi.org/10.1177/08997640221126147)

Mayer, D. J. Fischer, R. L. (2022). Can a Measurement Error Perspective Improve Estimation in Neighborhood Effects Research? A Hierarchical Bayesian Methodology. *Social Science Quarterly*. DOI: [10.1111/ssqu.13190](https://doi.org/10.1111/ssqu.13190)

Manuscripts Under Review

Mayer, D. J. (under review) Delinquency, Lead, and Nonprofit Density; A Spatio-Temporal Perspective. *Social Science and Medicine*.

Mayer, D. J. Spatial Disparities in Infant Mortality: The Role of Neighborhood Characteristics. *Journal of Urban Health*.

Mayer, D. J. (under review). On the Specification of the Binary Weight Matrix in the ICAR Prior: Implications for Inference. *Spatial and Spatio-temporal Epidemiology*.

Mayer, D. J. (under review). The Nonprofit Response to Neighborhood Conditions: Incorporating Space-Time Heterogeneity. *Nonprofit and Voluntary Sector Quarterly*.

Mayer, D. J. (under review). Revealed Preference for Nonprofit Organizations; A Hedonic Price Analysis. *Urban Geography*.

Mayer, D. J. (under review). Connecting Founding and Dissolution; A Demographic Study of The US Nonprofit Sector. *Public Administration Review*.

Mayer, D. J. (under review). Exploring Variation in the Relationship Between Deprivation and the Density of Human Service Nonprofits. *Administration and Society*.

Mayer, D. J. (under review). Discussion and Application of Empirical Models for Nonprofit Density and Vital Events. *Nonprofit Policy Forum*.

Mayer, D. J. (under review). Revisiting Portfolio Composition and Volatility: Short- and Long-Term Perspectives. *Journal of Public and Nonprofit Affairs*.

Book Chapters and Reviews

Fischer, R. L., **Mayer, D. J.** (2022) Nonprofit Management: Beyond Managerialism. In W. Brown, M. Hale (eds). *Preparing Nonprofit Leaders: Contemporary Perspectives*. Routledge. ISBN: [9781032277806](https://doi.org/10.1080/08841233.2020.1809257)

Fischer, R. L., **Mayer, D. J.** (2020). Macro Social Work Practice: Working for Change in a Multicultural Society. *Journal of Teaching in Social Work*. DOI: [10.1080/08841233.2020.1809257](https://doi.org/10.1080/08841233.2020.1809257)

Select Professional or Technical Reports

Fischer, R., Mansoor, D., **Mayer, D. J.** (2020). A Study of the Educational Needs of Fundraising and Grant Making Professionals in Northeast Ohio.

Atwell, M., Fischer, R., L., Chan, T, **Mayer, D. J.**, Henderson, M. (2019). Year Two Gap Analysis: Accountable Health Communities. The Center on Poverty and Community Development.

Ooms, T., Chew, A., **Mayer, D. J.** (2018). Senior Needs Assessment: 2018. Wilkes-Barre, PA: The Institute for Public Policy and Economic Development.

Ooms, T., Chew, A., **Mayer, D. J.**, Ritter, C. (2018). Berwick Community Needs Assessment. Wilkes-Barre, PA: The Institute for Public Policy and Economic Development.

Ooms, T., Chew, A., McCormick, E., **Mayer, D. J.** (2018). The Intersection of Transit and Land Use. Wilkes-Barre, PA: The Institute for Public Policy and Economic Development.

Ooms, T., Chew, A., **Mayer, D. J.**, McCormick, E. (2018). Social Determinants of Health. Wilkes-Barre, PA: The Institute for Public Policy and Economic Development.

Ooms, T., Chew, A., **Mayer, D. J.**, McCormick, E. (2018). Health Literacy: A Public Health Challenge. Wilkes-Barre, PA: The Institute for Public Policy and Economic Development.

Ooms, T., Chew, A., **Mayer, D. J.**, McCormick, E. (2018). What's Next? A Technical Report on 2018 Post-Graduation Polls. Wilkes-Barre, PA: The Institute for Public Policy and Economic Development.

Ooms, T., Chew, A., **Mayer, D. J.**, McCormick, E. (2018). The Nonprofit Social Service Sector in Luzerne and Lackawanna Counties. Wilkes-Barre, PA: The Institute for Public Policy and Economic Development.

Ooms, T., Chew, A., McCormick, E., **Mayer, D. J.** (2018). Workforce Trends and Challenges in Northeastern Pennsylvania. Wilkes-Barre, PA: The Institute for Public Policy and Economic Development.

Ooms, T., Chew, A., McCormick, E., **Mayer, D. J.** (2018). The Behavioral Health Initiative: A Report on the Behavioral Health Workforce. Wilkes-Barre, PA: The Institute for Public Policy and Economic Development.

Ooms, T., Chew, A., McCormick, E., **Mayer, D. J.** (2017). Public Policy and Civic Engagement: A Technical Report on 2017 Polls. Wilkes-Barre, PA: The Institute for Public Policy and Economic Development.

Mayer, D. J. (2017). Preschool and Dibels Assessments. Scranton, PA: United Way of Lackawanna and Wayne Counties.

MEDIA

["Mandel School's Duncan Mayer explores nonprofit location and density"](#), featured in Case Western Reserve University's "the Daily." June 23rd, 2023.

["Mandel School's Duncan Mayer writes about child maltreatment"](#), featured in Case Western Reserve University's "the Daily." May 12th, 2023.

["Duncan Mayer writes about revenue volatility"](#), featured in Case Western Reserve University's "the Daily." December 2nd, 2022.

PRESENTATIONS

Presentations at National Conferences

Mayer, D. J. (2022, accepted but not presented). Understanding Social Disorganization and the Nonprofit Infrastructure; An Ecological Study of Child Maltreatment Rates. The Society for Social Work Research. Juried poster presentation.

Mayer, D. J. (2022). Revealed Preference for Nonprofit Organizations; A Hedonic Price Analysis. Annual Conference of the Association for Research on Nonprofit Organizations and Voluntary Action (ARNOVA). Juried paper presentation.

Mayer, D. J. (2022). Nonprofit Response to Neighborhood Conditions: Incorporating Space-Time Heterogeneity. Annual Conference of the Association for Research on Nonprofit Organizations and Voluntary Action (ARNOVA). Juried paper presentation.

Mayer, D. J. Fischer, R. L. (2021). Examining Revenue Volatility in Nonprofit Organizations with a Discussion of Measurement and Portfolio Representation. Annual Conference of the Association for Research on Nonprofit Organizations and Voluntary Action (ARNOVA). Juried paper presentation.

Presentations at Local Conferences

Mayer, D. J. (2022). Understanding the Geography of Cuyahoga County's Nonprofit Sector Through Form-990 Data. Data Days Cleveland. Juried oral presentation.

Mayer, D. J. (2017). Evaluation Capacity: Structures, Stakeholders, Attitudes, and Environment. Annual Conference of the National Association of Social Workers, Pennsylvania. Juried poster presentation.

TEACHING (AND RELATED) EXPERIENCE

Instructor of Record

Case Western Reserve University

Evidence-informed practice (SASS 528)

Masters of Social Work: 2021 (in-person), 2022 (online)

Theoretical contexts shaping community practice (SASS 534)

Masters of Social Work: 2021 (online), 2022 (in-person)

Poverty, wealth building, and social entrepreneurship (SASS 367)

Social Work Minor: 2020 (online)

Course Development

Case Western Reserve University

Working with data for organizational empowerment (SASS 500)

Masters of Social Work, Certificate in Data Sciences for Social Impact, Approved 2021

Community practice policy: Analyzing and changing social policy (SASS 561)

Masters of Social Work, Approved 2020 (online)

Teaching Assistant

Case Western Reserve University

Data-based decision making (SASS 410)

Masters of Nonprofit Organizations, 2020 (online)

Theoretical contexts shaping community practice (SASS 534)

Masters of Social Work, 2019-2021 (online/in-person)

Community practice policy: Analyzing and changing social policy (SASS 561)

Masters of Social Work, 2019-2021 (online/in-person)

Marywood University

Social work research: Implementation and analysis (SW 702)

Masters of Social Work, 2017 (in-person)

SERVICE AND LEADERSHIP

Member, Case Western Reserve University Social Welfare

2017-2019

PhD Executive Committee

Member, Case Western Reserve University Masters of Social Work Community Practice Curriculum Committee

2019

Ad hoc Reviewer: Nonprofit Management and Leadership, City and Community