

Duncan J. Mayer

Quantitative Social Scientist

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Education

Case Western Reserve University (Cleveland, OH)

Jack, Joseph and Morton Mandel School of Applied Social Sciences

Expected 2023

PhD Candidate in Social Welfare

Dissertation: *Essays on Community-Organization Dynamics*

Marywood University, MSW (Dunmore, PA)

2017

Thesis: *Evaluation Capacity; Structures, Stakeholders, Attitudes, and Environment*

Marywood University, BSW (Dunmore, PA)

2015

Research Interests

Substantive domains: data use, program evaluation, neighborhoods, organizational ecology, and community-organization dynamics.

Methodological: hierarchical models (rich parameterizations), model criticism, measurement error, nonlinearity, and spatial statistics.

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

Employment

BeVERA SOLUTIONS (ATLANTA, GA)

Statistician

2022-present

Led statistical development of several white papers for the Centers for Disease Control and Prevention's [National Center for Infectious and Respiratory Disease](#)

CASE WESTERN RESERVE UNIVERSITY (CLEVELAND, OH)

Research Fellow (Data Scientist)

2018-2022

Developed and led all aspects of several scientific studies resulting multiple publications while providing ad hoc methodological support for select research reports, affiliated with the [The Center on Poverty and Community Development](#)

THE INSTITUTE FOR PUBLIC POLICY AND ECONOMIC DEVELOPMENT (WILKES-BARRE, PA)

Research Analyst

2017-2018

Co-authored 11 funded research papers on topics related to public policy, leading data analysis in 5. Provided ad hoc data analysis to a variety of public and private stakeholders.

MARYWOOD UNIVERSITY (SCRANTON, PA)

Research Assistant

2017

Provided technical support for studies of childcare centers across Northeast Pennsylvania, responsibilities included data management, analysis, and writing.

Select Honors

Jack, Joseph and Morton Mandel School of Applied Social Sciences Research Fellow 2018-2022
Case Western Reserve University Social Justice Institute Research Fellow 2022-2023
Association for Research on Nonprofit Organizations and Voluntary Action Doctoral Fellow 2022

Publications

ARTICLES IN REFEREED JOURNALS

Mayer, D. J., Fischer, R. L. (accepted) Exploring Niche Alteration in Nonprofit Organizations. *Administration and Society*.

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

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 Non-profit 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. (revise and resubmit, 2nd round) Understanding Location and Density; A Spatial Analysis of Cuyahoga County Ohio's Nonprofit Sector. *Nonprofit and Voluntary Sector Quarterly*.

Mayer, D. J. (revise and resubmit) Revisiting Portfolio Composition and Volatility: Short- and Long-Term Perspectives. *Public Budgeting and Finance*.

Mayer, D. J. (under review). Let's Try That Again: Improving the Teaching of Statistical Inference Through the Bootstrap. *Journal of Teaching Social Work*.

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., Fischer, R. L. (under review). Teaching Spatial Data Analysis; A Case Study with Recommendations. *Nonprofit Policy Forum*.

MANUSCRIPTS IN PREPARATION

How Should Nonprofit Density and Vital Events be Modeled? Discussion and Applications. Target Outlet: *Nonprofit and Voluntary Sector Quarterly*.

Can Specialization Protect Against Competitive Effects? A Study of Contributions in US Nonprofits. Target Outlet: *Public Administration*.

A Note on the Contiguity Matrix in ICAR Prior Models. Target Outlet: *Social Science Quarterly*.

DISSERTATION PAPERS

The Nonprofit Response to Neighborhood Conditions: Incorporating Space-Time Heterogeneity

Revealed Preference for Nonprofit Organizations, A Hedonic Price Analysis

Connecting Founding and Dissolution; A Demographic Study of The US Nonprofit Sector

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.

Fischer, R. L., **Mayer, D. J.** (2020). Macro social work practice: Working for change in a multicultural society. *Journal of Teaching in Social Work*. <https://doi.org/10.1080/08841233.2020.1809257>

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 & 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.** (2017). 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

“Duncan Mayer writes about revenue volatility”, featured in [Case Western Reserve University's "the Daily"](#)

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

Master of Social Work

SASS 528; Evidence-informed practice (Master of Social Work)	2021 (in-person), 2022 (online)
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SASS 534; Theoretical contexts shaping community practice (Master of Social Work)	2021 (online), 2022 (in-person)
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SASS 367; Poverty, wealth building, and social entrepreneurship (Social Work Minor)	2020 (online)
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COURSE DEVELOPMENT

Case Western Reserve University

SASS 500; Working with data for organizational empowerment
(Master of Social Work, Certificate in Data Sciences for Social Impact) Approved 2021

SASS 561; Community practice policy: Analyzing and changing social policy
(Online, Master of Social Work) Approved 2020

TEACHING ASSISTANT

Case Western Reserve University

SASS 410; Data-based decision making
(Master of Nonprofit Organizations) 2020

SASS 534; Theoretical contexts shaping community practice
(Master of Social Work) 2019-2021

SASS 561; Community practice policy: Analyzing and changing social policy
(Master of Social Work) 2019-2021

Marywood University

SW 702 Social work research: Implementation and analysis
(Master of Social Work) 2017

Service

Case Western Reserve University

PhD executive committee 2017-2019

Community practice committee on curriculum 2019

AD HOC REVIEWER

Nonprofit Management and Leadership 2022

Professional Affiliations

Association for Research on Nonprofit Organizations and Voluntary Action 2021-present

Academic Honor Societies

Sigma Zeta (Phi Alpha) 2017

Alpha Delta Mu 2015

Delta Epsilon Sigma 2015

Internships

The United Way of Lackawanna and Wayne Counties (Scranton, PA)
440 hours 2016-2017

The Institute for Public Policy and Economic Development (Wilkes-Barre, PA)
250 hours 2016

United Neighborhoods Center of Northeast PA (Scranton, PA) 450 hours	2015
Prevention Point Philadelphia (Philadelphia, PA) 500 hours	2015
Community Intervention Center (Scranton, PA) 30 hours	2014

References Available Upon Request