

Duncan J Mayer

Statistician and PhD Candidate

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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

Nonprofit studies: data use, program evaluation, neighborhoods, community-organization dynamics.

Methodological: hierarchical models, model criticism, measurement error, nonlinearity, and spatial statistics.

Software: R (advanced) | Stan (intermediate) | SQL (intermediate) | \LaTeX (developing)

Select Honors

Mandel School of Applied Social Sciences Research Fellow

2018-2022

Social Justice Institute Research Fellow

2022

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

Publications

ARTICLES IN REFEREED JOURNALS

Mayer, D. J. (2022) Simmer Down Now! A Study of Revenue Volatility and Dissolution in Nonprofit Organizations. *Nonprofit and Voluntary Sector Quarterly*. <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*. <https://doi.org/10.1111/ssqu.13190>

MANUSCRIPTS UNDER REVIEW

Mayer, D. J., Fischer, R. L. (conditionally accepted) Exploring Data Use in Nonprofit Organizations. *Evaluation and Program Planning*.

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

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

Mayer, D. J. (revise and resubmit) Understanding Location and Density; A Spatial Analysis of Cuyahoga County Ohio's Nonprofit Sector. *Nonprofit and Voluntary Sector Quarterly*.

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

Mayer, D. J. (under review) Understanding Social Disorganization and the Nonprofit Infrastructure; An Ecological Study of Child Maltreatment Rates. *Social Currents*.

Mayer, D. J. (under review) Social Capital and the Nonprofit Infrastructure; an Ecological Study of Child Maltreatment. *Journal of Community Psychology*.

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

Mayer, D. J. (under review) How Should Nonprofit Density and Vital Events be Modeled? Discussion and Applications. *VOLUNTAS: International Journal of Voluntary and Nonprofit Organizations*.

MANUSCRIPTS IN PREPARATION

Teaching Spatial Reasoning; A Case Study with Recommendations. Target Outlet: *Nonprofit Policy Forum*.

Exploring Variation in the Relationship Between Deprivation and the Density of Human Service Nonprofits. Target Outlet: *Administration and Society*.

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.

National Presentations

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.

Local Presentations

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

Employment

BeVera Solutions (Atlanta, GA)

Statistician

2022-present

The Center on Poverty and Community Development (Cleveland, OH)

Research Fellow

2018-2022

Led research in areas including applied statistics, community-organization interaction, non-profit finance, and neighborhood effects.

Led and assisted in curriculum development (masters level).

Collaborated on program evaluation for nonprofit organizations including health and human services.

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

Research Analyst

2017-2018

Provided research support for local organizations and media outlets topics included early education, health literacy, economic development, and demographic changes.

Assisted in grant preparation.

Conducted community based research in areas including behavioral health workforce development, nonprofit capacity, civic engagement.

Independent Contractor (Scranton, PA)

Program Evaluator

2017

Evaluated early education programs.

Created primers and briefs for stakeholder groups.

Marywood University (Scranton, PA)

Research Assistant

2017

Assisted in studies of childcare centers across Northeast Pennsylvania, responsibilities included data management, analysis, writing.

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)

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

2021 (online), 2022 (in-person)

SASS 367; Poverty, wealth building, and social entrepreneurship
(Social Work Minor)

2020 (online)

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

Case Western Reserve University

SASS 410; Data-based decision making (Master of Nonprofit Organizations)	2020
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SASS 534; Theoretical contexts shaping community practice (Master of Social Work)	2019-2021
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SASS 561; Community practice policy: Analyzing and changing social policy (Master of Social Work)	2019-2021
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Marywood University

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

Case Western Reserve University

PhD executive committee	2017-2019
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Community practice committee on curriculum	2019
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Professional Affiliations

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

Sigma Zeta (Phi Alpha)	2017
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Alpha Delta Mu	2015
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Delta Epsilon Sigma	2015
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Internships

The United Way of Lackawanna and Wayne Counties (Scranton, PA) 440 hours	2016-2017
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The Institute for Public Policy and Economic Development (Wilkes-Barre, PA) 250 hours	2016
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United Neighborhoods Center of Northeast PA (Scranton, PA) 450 hours	2015
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Prevention Point Philadelphia (Philadelphia, PA) 500 hours	2015
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Community Intervention Center (Scranton, PA)
30 hours

2014

References Available Upon Request