

Claire R. McNellan, M.P.H.

School of Social Work
University of North Carolina at Chapel Hill
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EDUCATION

Expected 2024	Ph.D. candidate , The University of North Carolina at Chapel Hill Social Work Dissertation: Using Unsupervised Machine Learning to Advance Understanding of Child Maltreatment Report Dispositions Committee: Emily Putnam-Hornstein (chair), Ramona Denby-Brinson, Rebecca Rebbe, Todd Jenson, Shabbar Ranapurwala
2017	M.P.H. , University of Washington Health Metrics and Evaluation
2014	B.A. , Colorado College Neuroscience (<i>with distinction</i>), Minor: Bioethics

PROFESSIONAL POSITIONS

2020-	Doctoral Research Assistant Children's Data Network The University of North Carolina at Chapel Hill Los Angeles, CA & Chapel Hill, NC
2020-2020	Research Scientist/Engineer Global Center for Integrated Health of Women, Adolescents, & Children Department of Global Health University of Washington School of Medicine Seattle, WA
2018-2019	Associate Director of Data Analysis and Governance National Court Appointed Special Advocates/Guardians ad Litem Association for Children Seattle, WA
2017-2018	Data Governance and Evaluation Specialist National Court Appointed Special Advocates/Guardians ad Litem Association for Children Seattle, WA
2016-2016	Visiting Research Fellow Public Health Foundation of India Gurgaon, India

2014-2017 **Post-Bachelor Fellow**
Institute for Health Metrics and Evaluation
University of Washington
Seattle, WA

MAJOR RESEARCH INTERESTS

Child- & family-serving systems; maternal and child health disparities; child maltreatment; decision-making; administrative data; public health surveillance; population health.

MANUSCRIPTS IN PREPARATION

8. Sattler, K., **McNellan, C. R.**, Foust, R., Putnam-Hornstein, E. Learning loss during the COVID-19 pandemic: Evidence from California.
7. **McNellan, C.R.**, Putnam-Hornstein, E. Using Bayesian methods to understand mortality risk among foster care youth in transition.
6. Ahn, E., **McNellan, C.R.**, Prindle, J., Foust, R., Putnam-Hornstein, E. Kindergarten matriculation patterns among public school children in California: A pre- and post-COVID comparison.
5. Prindle, J., **McNellan, C.R.**, Ahn, E., Foust, R., Putnam-Hornstein, E. Beating the odds: Characterizing resilient students using linked administrative data.
4. **McNellan, C. R.**, Palmer, L., Font, S., Putnam-Hornstein, E., & McCroskey, J. Using a predictive risk model to assess disparities in service referrals following a child protection investigation.
3. **McNellan, C. R.**, Prindle, J., & Eastman, A. L., Putnam-Hornstein, E. Mortality in a California cohort of emerging adults exiting foster care.
2. Prindle, J., **McNellan, C. R.**, Foust, R., & Putnam-Hornstein, E. Modeling academic achievement among maltreated children: Implications for policy.
1. Gibbs, D. J., **McNellan, C. R.**, Dawes, H., & Forte, A. Outcomes associated with child participation in United States dependency court proceedings: A systematic review.

MANUSCRIPTS UNDER REVIEW

3. **McNellan, C. R.**, Richards, R., Johnson, E., Ingalls, M., Tailer, S., Putnam-Hornstein, E. Child care as a tool to prevent child protection involvement: Findings from Douglas County, Colorado.

2. Gibbs, D. J., Lanier, P., **McNellan, C. R.**, Bryan, K., Identifying children at risk for maltreatment fatalities: Assessing the current landscape of birth match policies in the United States. *Revise and resubmit*. Preprint available at SSRN: <http://dx.doi.org/10.2139/ssrn.4484401>
1. Flor, L. S., et al. [including **McNellan, C.R.**] Endline assessment of community-based program on hypertension and diabetes management in Brazil. Preprint available at medRxiv: <https://doi.org/10.1101/2022.05.22.22275385>

PEER-REVIEWED PUBLICATIONS

20. Fullman, N., et al. [including **McNellan, C.R.**] (2023) Assessing the impact of community-based interventions on hypertension and diabetes management in three Minnesota communities: Findings from the prospective evaluation of US HealthRise programs. *PLoS ONE*, 18(2). <https://doi-org.libproxy.lib.unc.edu/10.1371/journal.pone.0279230>
19. **McNellan, C. R.**, Gibbs, D. J., Knobel, A. S., & Putnam-Hornstein, E. (2022) The evidence base for risk assessment tools used in U.S. child protection investigations: A systematic scoping review. *Child Abuse and Neglect*, 134. <https://doi.org/10.1016/j.chiabu.2022.105887>
18. Foust, R., et al. [including **McNellan, C. R.**] (2022) The Children's Data Network: Harnessing the scientific potential of linked, administrative data to inform children's programs and policies. *International Journal of Population Data Science*, 6(3). <https://doi.org/10.23889/ijpds.v6i3.1702>
17. Flor, L. S., et al. [including **McNellan, C. R.**] (2020) Community-based interventions for detection and management of diabetes and hypertension in underserved communities: A mixed-methods evaluation in Brazil, India, South Africa and the USA. *BMJ Global Health*, 5(6). <https://doi.org/10.1136/bmjgh-2019-001959>
16. **McNellan, C. R.**, Dansereau, E., Wallace, M. C., et al. (2019) Antenatal care as a means to increase participation in the continuum of maternal and child healthcare: An analysis of the poorest regions of four Mesoamerican countries. *BMC Pregnancy and Childbirth*, 19(1). <https://doi.org/10.1186/s12884-019-2207-9>
15. Duber, H. C., **McNellan, C. R.**, Wollum, A., et al. (2018) Public knowledge of cardiovascular disease and response to acute cardiac events in three cities in China and India. *Heart*, 104(1). <https://doi.org/10.1136/heartjnl-2017-311388>
14. Mokdad, A. H., et al. [including **McNellan, C.R.**] (2018) Supply-side interventions to improve health: Findings from the Salud Mesoamerica Initiative. *Plos One*, 13(4). <https://doi.org/10.1371/journal.pone.0195292>
13. Wollum, A., Gabert, R., **McNellan, C. R.**, et al. (2018) Identifying gaps in the continuum of care for cardiovascular disease and diabetes in two communities in South Africa: Baseline

- findings from the HealthRise project. *Plos One*, 13(3).
<https://doi.org/10.1371/journal.pone.0192603>
12. El Bcheraoui, C., Zuniga-Brenes, P., Rios-Zertuche, D., Palmisano, E. B., **McNellan, C. R.**, et al. (2018) Health systems strategies to increase HIV screening among pregnant women in Mesoamerica. *Population Health Metrics*, 16(5). <https://doi.org/10.1186/s12963-018-0162-8>
 11. Vos, T., et al. [including **McNellan, C. R.**] (2017) Global, regional, and national incidence, prevalence, and years lived with disability for 328 diseases and injuries for 195 countries, 1990–2016: A systematic analysis for the Global Burden of Disease Study 2016. *The Lancet*, 390, 1211-1259. [https://doi.org/10.1016/S0140-6736\(17\)32154-2](https://doi.org/10.1016/S0140-6736(17)32154-2)
 10. Gabert, R., Ng, M., Sogarwal, R., Bryant, M., Deepu, R. V., **McNellan, C. R.**, et al. (2017) Identifying gaps in the continuum of care for hypertension and diabetes in two Indian communities. *BMC Health Services Research*, 17(846). <https://doi.org/10.1186/s12913-017-2796-9>
 9. Hernandez, B., et al. [including **McNellan, C. R.**] (2017) Barriers and facilitators for institutional delivery among poor Mesoamerican women: a cross-sectional study. *Health Policy and Planning*, 32(6), 769-780. <https://doi.org/10.1093/heapol/czx010>
 8. **McNellan, C. R.**, Dansereau, E., Colombara, D., et al. (2017) Uptake of antenatal care, and its relationship with participation in health services and behaviors: An analysis of the poorest regions of four Mesoamerican countries. *Annals of Global Health*, 83(1), 193-194. <https://doi.org/10.1016/j.aogh.2017.03.482>
 7. Barber, R. M., et al. [including **McNellan, C. R.**] (2017) Healthcare access and quality index based on mortality from causes amenable to personal health care in 195 countries and territories, 1990-2015: A novel analysis from the global burden of disease study 2015. *The Lancet*, 390, 231-266. [https://doi.org/10.1016/S0140-6736\(17\)30818-8](https://doi.org/10.1016/S0140-6736(17)30818-8)
 6. Kulikoff, X. R., et al. [including **McNellan, C. R.**] (2016) Health metrics priorities in the SDG era and beyond: a perspective from young researchers. *The Lancet*, 388(10058). [http://dx.doi.org/10.1016/S0140-6736\(16\)32134-1](http://dx.doi.org/10.1016/S0140-6736(16)32134-1)
 5. Lim, S. S., et al. [including **McNellan, C. R.**] (2016) Measuring the health-related Sustainable Development Goals in 188 countries: A baseline analysis from the Global Burden of Disease Study 2015. *The Lancet*, 388, 1813-1850. [https://doi.org/10.1016/S0140-6736\(16\)31467-2](https://doi.org/10.1016/S0140-6736(16)31467-2)
 4. Dansereau, E., **McNellan, C. R.**, Gagnier, M. C., et al. (2016) Coverage and timing of antenatal care among poor women in 6 Mesoamerican countries. *BMC Pregnancy and Childbirth*, 16(1). <https://doi.org/10.1186/s12884-016-1018-5>

3. Colombara, D.V., et al. [including **McNellan, C. R.**] (2016) Institutional delivery and satisfaction among Indigenous and poor women in Guatemala, Mexico, and Panama. *PLOS ONE*, 11(4), e154388. <https://doi.org/10.1371/journal.pone.0154388>
2. Colombara, D. V., Hernandez, B., **McNellan, C. R.**, et al. (2016) Diarrhea prevalence, care, and risk factors among poor children under 5 years of age in Mesoamerica. *American Journal of Tropical Medicine and Hygiene*, 94(3), 544-552. <https://doi.org/10.4269/ajtmh.15-0750>
1. Colombara, D. V., Hernandez, B., Gagnier, M. C., Johanns, C., Desai, S. S., Haakenstad, A., **McNellan, C. R.**, et al. (2015) Breastfeeding practices among poor women in Mesoamerica. *Journal of Nutrition*, 145(8), 1958-1965. <https://doi.org/10.3945/jn.115.213736>

GRANTS & RESEARCH SUPPORT

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|-----------|---|
| 2021-2022 | Douglas County Department of Human Services
<i>A Retrospective Population-Based Study of Child Protective System Involvement</i>
Research Contract (\$40,000)
Lead Investigator
Faculty PI: Emily Putnam-Hornstein, PhD |
| 2021-2022 | Center for Innovation in Child Maltreatment Policy, Research, & Training at
Washington University in St. Louis
<i>Assessing the Utility of a Risk-Stratification Model to Increase Equitable Service
 Connection</i>
Pilot Project Award (\$20,000)
Principal Investigator
Faculty Co-Investigator: Emily Putnam-Hornstein, PhD |
| 2020-2022 | Eunice Kennedy Shriver National Institute of Child Health and Human
Development (NICHD) 1P50HD096719-01
<i>Project Data SMART (Selection, Management, Analysis, Replication & Transfer)</i>
Subaward (\$247,500)
Research Assistant
Site PI: Emily Putnam-Hornstein, PhD |
| 2020-2020 | National Institutes of Health (NIH) R01-AI150978-01
<i>The Role of Enteric Pathogens and Antimicrobial Resistance in Driving Clinical and
 Nutritional Deterioration, and Azithromycin's Potential Effect, Among Children
 Discharged from Hospital in Kenya</i>
(\$782,247)
Research Assistant
PI: Patricia Pavlinac, PhD |

McNellan
Current as of: July, 2023

HONORS & FELLOWSHIPS

2023	Comprehensive Oral Substantive Examination Passed with Distinction University of North Carolina School of Social Work
2022	Fulbright Student Program Semi-Finalist U.S. Department of State
2022	Comprehensive Methods Examination Passed with Distinction University of North Carolina School of Social Work
2021-2022	Injury and Violence Prevention Fellowship University of North Carolina Injury Prevention Research Center
2021	Best Student Presentation University of North Carolina Injury Prevention Research Center conference, “Intersectional Approaches to Injury and Violence Prevention in a Post-COVID World”
2014-2017	Post-Bachelor Fellowship Institute for Health Metrics and Evaluation
2014-	Psi Chi International Honors Society
2011-	Alpha Lambda Delta National Honors Society
2010-2014	Women’s Educational Society Scholarship The Colorado College

CONFERENCE PRESENTATIONS (* = presenting author)

- 2023
- McNellan, C.R.***, Ahn, E.* , Noll, J.* , Miyamoto, S.* Community-Based Services for the Prevention and Detection of Child Abuse and Neglect. The International Society for the Prevention of Child Abuse & Neglect (ISPCAN) 2023 International Congress. *Edinburgh, United Kingdom*. (accepted)
- McNellan, C.R.**, Putnam-Hornstein, E. (Poster) Using a Multi-State Markov Model to Estimate Mortality Risk Among Foster Youth During Transition. Population Association of America (PAA) 2023 Annual Meeting. *New Orleans, LA*.
- McNellan, C.R.***, Gibbs, D., Putnam-Hornstein, E., Knobel, A. The Evidence for Risk Assessment Tools Used in Child Protection Investigations: A Scoping Review. Society for Social Work and Research (SSWR) Annual Conference. *Phoenix, AZ*.
- McNellan, C.R.***, Palmer, L., Putnam-Hornstein, E., McCroskey, J. Risk, Race, and Community-Based Service Referrals in Los Angeles County, California. Society for Social Work and Research (SSWR) Annual Conference. *Phoenix, AZ*.
- Putnam-Hornstein, E.* , Vaithianathan, R., Cuccaro-Alamin, S., McCroskey, J., Ahn, E., **McNellan, C.R.** Developing and Implementing a Predictive Risk Model to Support Child

Protection Supervisors: Results from Los Angeles County Risk Stratification Pilot. Society for Social Work and Research (SSWR) Annual Conference. *Phoenix, AZ*.

2022

McNellan, C.R.*, Eastman, A., Prindle, J., Putnam-Hornstein, E. Mortality During Transitions Out of Foster Care: Evidence from California. Population Association of America (PAA) 2022 Annual Meeting. *Atlanta, GA* (presented remotely due to COVID-19).

McNellan, C.R.*, Eastman, A., Prindle, J., Foust, R., Herd, T. Leveraging Linked, Administrative Data to Inform Policy and Practice for Adolescents who have Child Protective Services (CPS) Involvement. The International Society for the Prevention of Child Abuse & Neglect (ISPCAN) 2022 International Congress. *Tallinn, Estonia* (withdrawn due to COVID-19).

McNellan, C.R.*, Prindle, J., Putnam-Hornstein, E., Cuccaro-Alamin, S., Palmer, L. Risk Assessment Tools to Support Child Welfare Practice. The International Society for the Prevention of Child Abuse & Neglect (ISPCAN) 2022 International Congress. *Tallinn, Estonia* (withdrawn due to COVID-19).

McNellan, C.R.*, Palmer, L., Putnam-Hornstein, E., McCroskey, J. Assessing the Utility of a Predictive Risk Model to Increase Service Connections in Los Angeles, California. The International Society for the Prevention of Child Abuse & Neglect (ISPCAN) 2022 International Congress. *Quebec City, Quebec* (withdrawn due to COVID-19).

Prindle, J.*, Foust, R., **McNellan, C.R.**, Putnam-Hornstein, E. Modeling Academic Achievement Among Maltreated Children: Implications for Policy. Annual Association for Public Policy Analysis & Management Conference (APPAM). *Austin, TX*.

McNellan, C.R.*, Palmer, L., McCroskey, J., Putnam-Hornstein, E. Using a Predictive Risk Model to Assess Racial Disparities in Service Referrals Following a Child Protection Investigation. Society for Social Work and Research (SSWR) Annual Conference. *Washington, DC*. (withdrawn due to COVID-19).

2021

Prindle, J., Eastman, A.L., **McNellan, C.R.**, Putnam-Hornstein, E. Cohort Study of Mortality Among Youth in Foster Care. Society for Social Work and Research (SSWR) Annual Conference. *Virtual*. (Withdrawn due to COVID-19).

Gibbs, D.*, **McNellan, C.R.** The Empirical Evidence for Child Participation in Dependency Court Proceedings: Results of a Systematic Review of the Literature. National Child Welfare Law Conference (NACC). *Denver, CO*. (Withdrawn due to COVID-19).

2017

McNellan, C.R. (Poster) Uptake of Antenatal Care and its Relationship with Participation in Health Services and Behaviors: An Analysis of the Poorest Regions of Four Mesoamerican Countries. The Consortium of Universities for Global Health Annual Global Health Conference. *Washington, DC.*

TEACHING

2022 (Fall) *Social Work Practice with Organizations and Communities*
(Mentored Second Instructor)
Graduate course in macro social work covering: theoretical foundations of macro practice, including critical theories and systems theories; the history of macro practice in relation to the development of the social work profession; data interpretation and analysis; organizational, local, state, and national policy impacts on social problems; intervention planning; and community-based needs assessments.

PROFESSIONAL SERVICE

Peer Reviewer

BMJ Open (2020)
Reproductive Health (2021, 2022)
Child Maltreatment (2022)

Member

Population Association of America
Society for Social Work and Research
American Professional Society on the Abuse of Children
International Society for the Prevention of Child Abuse and Neglect

UNIVERSITY SERVICE

2022- **Co-Director**
Child Maltreatment Research and Practice Network
University of North Carolina Graduate Student Networks

2020-2022 **Member**
Child Maltreatment Research and Practice Network
University of North Carolina Graduate Student Networks

2020-2021 **Student Representative**
Doctoral Program Committee
University of North Carolina School of Social Work

SELECTED TRAINING

- 2022 *Interdisciplinary Research Institute: Challenges in Child Maltreatment Research*
The Kempe Center for the Prevention and Treatment of Child Abuse and Neglect
- 2020 *Data Matters: Intro. to Big Data and Machine Learning for Social Scientists*
University of North Carolina Odum Institute for Research in Social Science
- 2019 *Interdisciplinary Research Institute: Challenges & Opportunities in Child Maltreatment Research*
The Kempe Center for the Prevention and Treatment of Child Abuse and Neglect
- 2018 *Court Appointed Special Advocate Training*
National Court Appointed Special Advocates/Guardian ad Litem Association for Children

RELATED PROFESSIONAL SKILLS

Statistical Languages: R, Stata, SPSS (limited proficiency), ATLAS.ti (limited proficiency), MPlus
Survey and Data Management Programs: Qualtrics, Survey Monkey, RedCap, KeySurvey
Data Visualization: R Markdown, Tableau (limited proficiency), Power BI
Reference Management: Zotero, RefWorks, Mendeley