

Cassie McMillan

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Education

Pennsylvania State University

Ph.D., Sociology and Demography, expected 2020
Minor in Social Data Analytics (Big Data)

Dissertation: Worth the Weight: Framing Social Processes as Weighted Social Networks

Committee: Diane Felmlee (Chair), Bruce Desmarais, Steven Haas, Jennifer Van Hook

- Outstanding Dissertation in Progress Award, Mathematical Sociology Section, American Sociological Association

Quantitative Methods Certificate, 2018

M.A., Sociology and Demography, 2016

University of North Carolina-Chapel Hill

B.S., Sociology and Mathematical Decision Sciences (Statistics), 2013

Research Interests

Social Networks, Social Inequality, Immigration, Health, Criminology, Quantitative Methods, Computational Sociology

Publications

Journal Articles and Peer Refereed Proceedings

McMillan, Cassie. 2019. "Tied Together: Adolescent Friendship Networks, Immigrant Status, and Health Outcomes." *Demography* 56(3):1075-1103. [[link](#)]

- Graduate Student Paper Award, Honorable Mention, Inequality, Poverty, and Mobility Section, American Sociological Association
- Student Paper Award for Best Working Paper, Honorable Mention, Department of Sociology, Pennsylvania State University

McMillan, Cassie, Diane Felmlee, and Dave Braines. 2019. "Dynamic Patterns of Terrorist Networks: Security versus Efficiency in the Evolution of Eleven Islamic Extremist Attack Networks." *Journal of Quantitative Criminology* doi: 10.1007/s10940-019-09426-9. [[link](#)]

McMillan, Cassie, Diane Felmlee, and D. Wayne Osgood. 2018. "Peer Influence, Friend Selection, and Gender: How Network Processes Shape Adolescent Smoking, Drinking, and Delinquency." *Social Networks* 55:86-96. [[link](#)]

- Student Paper Award for Best Published Paper, Department of Sociology, Pennsylvania State University

Felmlee, Diane, **Cassie McMillan,** Paulina Inara Rodis, and D. Wayne Osgood. 2018. "Falling Behind: Lingering Costs of the High School Transition for Youth Friendships and Grades." *Sociology of Education* 91(2):159-182. [[link](#)]

Felmlee, Diane, Emil C. Lupu, **Cassie McMillan**, Erisa Karafili, and Elisa Bertino. 2017. "Decision-Making in Policy Governed Human-Autonomous System Teams." In *IEEE Smart World Congress 2017*, doi: 10044/1/48241. [\[link\]](#)

Book Chapters

Sun, Xiaoran, and **Cassie McMillan***. 2018. "Interplay between Families and Technology: Future Investigations." Pp. 177-187 in *Families and Technology*, edited by J. Van Hook, S. McHale, and V. King. Cham, Switzerland: Springer. *Authors contributed equally. [\[link\]](#)

Felmlee, Diane, **Cassie McMillan**, Paulina Inara Rodis, and D. Wayne Osgood. 2018. "The Evolution of Youth Friendships from 6th through 12th Grade: School Transitions, Popularity, and Centrality." Pp. 161-84 in *The Life Course and Social Networks*, edited by D. F. Alwin, D. H. Felmlee, and D. A. Kreager. Cham, Switzerland: Springer. [\[link\]](#)

Manuscripts **Under Review**

McMillan, Cassie and Diane Felmlee. "Beyond Dyads and Triads: A Comparison of Tetrad Motifs in 20 Social Networks." *Revise and Resubmit*

McMillan, Cassie and David R. Schaefer. "Network-Based Prevention Campaigns for Adolescent Drinking: A Simulation Approach." *Revise and Resubmit*

McMillan, Cassie. "Who Run the World? How Gender Shapes R&B/Hip-Hop Collaboration Networks."

In Progress

McMillan, Cassie. "Worth the Weight: Conceptualizing and Measuring Homophily in Weighted Social Networks."

McMillan, Cassie. "Connecting the Dots: Using Social Network Analysis to Untangle the Factors Driving International Migration."

Felmlee, Diane, **Cassie McMillan**, Don Towsley, and Roger Whitaker. "Dyads, Triads, and Tetrads: Uncovering the Local Structure of Social Groups Through Network Motifs."

Faris, Robert, Diane Felmlee, and **Cassie McMillan**. "With Friends Like These: Aggression, Friendship, and Structural Equivalence."

Awards and Fellowships

Outstanding Dissertation in Progress Award, Mathematical Sociology Section, American Sociological Association, 2019.

Outstanding Graduate Student Paper Award, Honorable Mention, Inequality, Poverty, and Mobility Section, American Sociological Association, 2019.

P.E.O. Scholar Award, International Chapter of the P.E.O., 2019-2020.

Alan Booth Graduate Student Award, Pennsylvania State University, 2019.

Sociology Graduate Student Paper Award, Published Paper Category, Pennsylvania State University, 2019.

Sheila Burkett and Douglas T. Noakes Graduate Fellowship, College of Liberal Arts, Pennsylvania State University, 2018-2019.

Alan Booth Graduate Student Award, Honorable Mention, Pennsylvania State University, 2018.

Big Data Social Science IGERT Traineeship, Pennsylvania State University, 2015-2018.

Population Association of America (PAA) Poster Award, Annual Meeting of the PAA, Chicago, IL, 2017.

Graduate Scholar Award, Pennsylvania State University, 2018.

Sociology Graduate Student Paper Award, Honorable Mention, Working Paper Category, Pennsylvania State University, 2017.

Herbert J. Bailey Endowed Graduate Fellowship, Pennsylvania State University, 2015-2017.

Huber Form Scholarship, Pennsylvania State University, 2014.

SECU People Helping People Scholarship, State Employees Credit Union, North Carolina, 2009-2013.

Presentations *Invited*

2019 **McMillan, Cassie**. "Connecting the Dots: Using Social Network Analysis to Untangle the Factors Driving International Migration." Population Research Institute Brown Bag, Pennsylvania State University.

McMillan, Cassie. "Peer Influence, Friend Selection, and Gender: How Network Processes Shape Adolescent Smoking, Drinking, and Delinquency." Sociology Paper Competition Brown Bag, Pennsylvania State University.

McMillan, Cassie. "Variations in Peer Influence and Friend Selection: Implications for Network-Based Prevention Campaigns." Edna Bennett Pierce Prevention Research Center, Pennsylvania State University.

Conference Presentations

2019 Osgood, D. Wayne and **Cassie McMillan**. "Influenced by How Many Friends? A Pervasive Methodological Artifact and How to Solve It." Paper accepted for presentation at the annual meeting of the American Society of Criminology, San Francisco, CA.

McMillan, Cassie. "Worth the Weight: Conceptualizing and Measuring Homophily in Weighted Social Networks." Paper presented at the annual meeting of the American Sociological Association, New York, NY.

McMillan, Cassie and Sarah Miller. "Connecting the Dots: A Social Network Perspective to International Migration." Roundtable session at the annual meeting of the American Sociological Association, New York, NY.

McMillan, Cassie and Diane Felmlee. “Beyond Dyads and Triads: A Comparison of Tetrad Motifs across 20 Social Networks.” Paper presented at the INSNA Sunbelt Social Networks Conference, Montreal, QC.

McMillan, Cassie. “Worth the Weight: Conceptualizing and Measuring Homophily in Weighted Social Networks.” Paper presented at the INSNA Sunbelt Social Networks Conference, Montreal, QC.

McMillan, Cassie. “Connecting the Dots: Using Social Network Analysis to Untangle the Factors Driving International Migration.” Paper presented at the annual meeting of the Population Association of America, Austin, TX.

McMillan, Cassie, Diane Felmlee, and Dave Braines. “Tetrad Motifs: A Comparison of Local Structures in 20 Social Networks.” Poster presented at the annual meeting of the Population Association of America, Austin, TX.

2018 Felmlee, Diane, **Cassie McMillan,** Don Towsley, and Roger Whitaker. “Social Network Motifs: A Comparison of Social Groups.” Paper presented at the annual meeting of the American Sociological Association, Philadelphia, PA.

McMillan, Cassie and David R. Schaefer. “Network-Based Prevention Campaigns: A Simulation Approach.” Paper presented at the INSNA Sunbelt Social Networks Conference, Utrecht, Netherlands.

Felmlee, Diane, **Cassie McMillan,** Don Towsley, and Roger Whitaker. “Common Subgraphs in Social Networks: A Comparison of Motifs.” Paper presented at the INSNA Sunbelt Social Networks Conference, Utrecht, Netherlands.

2017 **McMillan, Cassie,** Diane Felmlee, Roger Whitaker, and Dinesh Verma. “Dynamic Patterns of Terrorist Networks: A Comparison of Common Structures among Terrorist Group Ties.” Paper presented at the annual meeting of the American Society of Criminology, Philadelphia, PA.

Felmlee, Diane, **Cassie McMillan,** Paulina Inara Rodis, and D. Wayne Osgood. “School Transitions: Effects of Youth Friendship Networks and GPA from 6th to 12th Grade.” Roundtable session at the annual meeting of the American Sociological Association, Montreal, QC.

Faris, Robert, Diane Felmlee, and **Cassie McMillan.** “With Friends Like These: Aggression, Friendship, and Structural Equivalence.” Paper presented at the annual meeting of the American Sociological Association, Montreal, QC.

Faris, Robert, Diane Felmlee, and **Cassie McMillan.** “With Friends Like These: Aggression from Equivalence and Amity.” Paper presented at the North American Social Networks Conference of the International Network for Social Network Analysis, Washington, DC.

Felmlee, Diane, **Cassie McMillan,** Paulina Inara Rodis, and D. Wayne Osgood. “Falling off Track: The Negative Impact of School Transitions on Youth Friendship Networks and GPA from Sixth through Twelfth Grade.” Poster presented at the annual meeting of the Population Association of America, Chicago, IL.

- Recipient of PAA Poster Award.

McMillan, Cassie. “Homophily on Immigrant Generation Status: How do Adolescent Friendships Relate to Immigrant Assimilation?” Paper presented at the annual meeting of the Population Association of America, Chicago, IL.

2016 **McMillan, Cassie.** “Gender Differences in Peer Influence and Friend Selection for Adolescent Delinquency, Drinking, and Smoking.” Roundtable session at the annual meeting of the American Sociological Association, Seattle, WA.

McMillan, Cassie. “Gender Differences in Friend Selection and Peer Influence: Applying a Dynamic Network Approach to Study Adolescent Problem Behavior.” Paper presented at the INSNA Sunbelt Social Networks Conference, Newport Beach, CA.

McMillan, Cassie, Clio Andris, James O’Dwyer, and Jeremy Van Cleve. “Geocomputational Methods for Modeling Dyadic Relationships in an Urban Context.” Paper presented at annual meeting of the American Association of Geographers, San Francisco, CA.

Teaching Experience

Instructor

2019 SOC 207: Research Methods in Sociology, Pennsylvania State University.

2018 SOC 001: Introduction to Sociology, Pennsylvania State University.

Lab Instructor

2019 SOC 580: Social Network Analysis, Pennsylvania State University.

Guest Lectures

2018 “Graph Theory and Tie Strength.”
SOC 580: Social Network Analysis, Pennsylvania State University.

2017 “An Introduction to SIENA: Modeling Longitudinal Network Data.”
SOC 580: Social Network Analysis, Pennsylvania State University.

2016 “Peers and Juvenile Delinquency.”
SOC 013: Juvenile Delinquency, Pennsylvania State University.

Online Class Reviewer

2017 “APDEM 806: Applied Demography and Health.”
Applied Demography Program, Penn State World Campus.

Research Experience

Summer Intern, Drs. Dinesh Verma and Rachel Bellamy.
IBM T.J. Watson Research Center, Yorktown Heights, NY, 2017.

Graduate Research Assistant, Dr. Diane Felmlee.
Department of Sociology, Pennsylvania State University, 2016-2017.

Summer Graduate Research Intern, Dr. Robert Faris.
Department of Sociology, University of California-Davis, 2016.

Graduate Research Assistant, Dr. Clio Andris.
Department of Geography, Pennsylvania State University, 2015-2016.

Research Assistant for PROSPER Peers, Dr. D. Wayne Osgood.
Department of Sociology, Pennsylvania State University, 2015.

Graduate Research Assistant, Dr. Steven Haas.
Department of Sociology, Pennsylvania State University, 2015.

Undergraduate Research Assistant, Carolina Mammography Registry.
The University of North Carolina at Chapel Hill, 2013.

Service

Elected Student Representative, ASA Mathematical Sociology Section,
2018-2019.

Sociology Faculty Search Committee, Pennsylvania State University, 2018-
2019.

Demography Program Peer Mentor, Pennsylvania State University, 2018-
2019.

Sociology Graduate Recruitment Committee, Pennsylvania State Uni-
versity, 2014-present. *Committee Chair, 2017-2018.*

Graduate Student Concerns Committee, Pennsylvania State University,
2015-present.

Sociology Social Committee, Pennsylvania State University, 2014-2018.
Committee Co-chair, 2017-2018.

Sociology Community Service Committee, Pennsylvania State University,
2014-2015.

Occasional reviewer for *American Sociological Review*, *Demography*, *Ethnic and
Racial Studies*, and *Journal of Gender Studies*.

Professional Memberships

American Sociological Association (ASA)
Population Association of America (PAA)
American Society of Criminology (ASC)
International Network for Social Network Analysis (INSNA)
Population Research Institute (PRI), Penn State University