ELLEN A. DONNELLY

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ACADEMIC EMPLOYMENT

Center for Drug and Health Studies, University of Delaware, Newark DE Interim Director	2023-Present
University of Delaware, Newark, DE Associate Professor of Sociology and Criminal Justice Assistant Professor of Sociology and Criminal Justice	2023-Present 2017-2023
Fels Institute of Government, University of Pennsylvania, Philadelphia, PA Resident Fellow & Lecturer in Data Science for Public Policy	2016-2017
University of Pennsylvania, Philadelphia, PA Lecturer in Criminology	2016-2017
University of Pennsylvania, Philadelphia, PA Research Associate in Criminology	1/2016-7/2016

EDUCATION

Joint Ph.D.	University of Pennsylvania, Political Science and Criminology, December 2015
A.M.	University of Pennsylvania, Political Science, December 2012
B.A.	Swarthmore College, Political Science with High Honors, May 2010

ARTICLES IN REFEREED JOURNALS

* Graduate student author, ** undergraduate student author at time of first publication

- 27. Donnelly, Ellen and Emily Tavares-Sanches**. "Opioid Misuse and Legislative Responses in U.S. States: Politics and Law-making to Address a Public Health Crisis." Forthcoming. *Journal of Crime and Justice.*
- 26. Wagner, Jascha, Ellen Donnelly, Cresean Hughes, Andrew Gray, Chenesia Brown*, Daniel O'Connell, and Tammy Anderson. "Race and Rationality Revisited: An Empirical Examination of Differential Travel Patterns to Acquire Drugs Across Geographic Contexts." Forthcoming. *American Journal of Criminal Justice*.
- 25. Ellen Donnelly, Daniel O'Connell, Jessica Arnold, and Adam Gavnik*. "Law Enforcement-Based Outreach and Treatment Referral as a Response to Opioid Misuse: Assessing Reductions in Overdoses and Costs." *Police Quarterly*. Online: December 3, 2022: <u>https://doi.org/10.1177/10986111221143784</u>
- 24. Swanson, Jeffrey, Guanyu Tong, Michele Easter, Josie Caves Sivaraman, Elizabeth Gifford, Brett Gardner, Ellen Donnelly, Kelly Evans, William Copeland, Marvin Swartz, Richard Bonnie. "From Adolescent Legal Involvement to Young Adult Gun Violence: Contextualizing Youthful Crime and Age-based Firearm Restrictions." *Preventive Medicine*. Online: September 30, 2022: <u>https://doi.org/10.1016/j.ypmed.2022.107279</u>
- 23. Donnelly, Ellen, Chenesia Brown*, Allison McBride, Leo Beletsky, and Tammy Anderson. (2023). "Emerging Disparities in the Placement of Law Enforcement-Based Treatment Referral and Recovery Programs." *Criminal Justice Review*. 48(3): 359-376. <u>https://doi.org/10.1177/07340168221117109</u>

- 22. Donnelly, Ellen and Christen Asiedu**. (2022). "Meeting the Disproportionate Minority Contact (DMC) Mandate: Lessons from State Assessments of Minority Overrepresentation and Racial/Ethnic Disparities in Juvenile Justice Systems." *Journal of Crime and Justice*. 45(3): 363-380. <u>https://doi.org/10.1080/0735648X.2021.1952102</u>
- 21. Donnelly, Ellen. (2021). "Race, Neighborhoods, and Sentencing: How Social Conditions and Neighborhood Types Affect Incarceration Disparities." *Justice System Journal*. 42(3-4): 230-251. <u>https://doi.org/10.1080/0098261X.2021.1882918</u>
- 20. Donnelly, Ellen, Jascha Wagner*, Tammy Anderson, and Daniel O'Connell. (2022).
 "Revisiting Neighborhood Context and Racial Disparities in Drug Arrests Under the Opioid Epidemic." *Race and Justice*. 12(2): 322-343. <u>https://doi.org/10.1177/2153368719877222</u>
- Donnelly, Ellen. (2022). "Neighborhoods, Criminal Incidents, and Sentencing: Exploring the Racial and Social Context of Incarceration Sentence Disparities." *British Journal of Criminology*. 62(2): 145-164. <u>https://doi.org/10.1093/bjc/azab046</u>
- 18. Donnelly, Ellen, Jascha Wagner, Cresean Hughes, Andrew Gray*, Tammy Anderson, and Daniel O'Connell. (2021). "Opioids, Race, Context, and Journeys to Crime: Analyzing Black-White Differences in Travel Associated with Opioid Possession Offenses." Criminal Justice and Behavior. 48(12): 1714-1731. <u>https://doi.org/10.1177/00938548211006757</u>
- Donnelly, Ellen, Madeline Stenger*, Shannon Streisel*, Daniel O'Connell, and Jessica Arnold. (2021). "Addressing Opioid Misuse: Hero Help as a Recovery and Behavioral Health Response." *Journal of Community Safety and Well-Being*. 6(3): 142-147. <u>https://doi.org/10.35502/jcswb.191</u>
- 16. Wagner, Jascha, Logan Neitzke-Spruill*, Ellen Donnelly, Daniel O'Connell, and Tammy Anderson. (2021). "The Current Community Context of Overdose Deaths: Relations among Drug Types, Drug Markets, and Socioeconomic Neighborhood Characteristics." Sociological Forum. 36(4): 1005-1027. <u>https://doi.org/10.1111/socf.12746</u>
- 15. Anderson, Tammy, Ellen Donnelly, Chris Delcher, and Yanning Wang. (2021). "Data Science Approaches in Criminal Justice and Public Health Research: Lessons Learned from Opioid Projects." *Journal of Contemporary Criminal Justice*. 37(2): 175-191. <u>https://doi org/10.1177/1043986221999858</u>
- 14. Donnelly, Ellen, Jascha Wagner*, Madeline Stenger*, Hannah Cortina*, Daniel O'Connell, and Tammy Anderson. (2021). "Opioids, Race, and Drug Enforcement: Exploring Local Relationships Between Neighborhood Context and Black-White Opioid-related Possession Arrests." *Criminal Justice Policy Review*. 32(3): 219–244. <u>https://doi.org/10.1177/0887403420911415</u>
- 13. Leiber, Michael, Ellen Donnelly, Yunmei (Iris) Yu. (2021). "What Context Matters and at What Level? A Test of Racial/Ethnic Threat, Symbolic Threat, and Structural Inequality Perspectives in Juvenile Court Decision-making." *Crime & Delinquency*. 67(2): 234-261. <u>https://doi.org/10.1177/0011128720938344</u>
- 12. Donnelly, Ellen and Christen Asiedu.** (2020). "Neighborhoods and Racial/Ethnic Disparities in Judicial Processing." *Sociology Compass.* 14(9): 1-17: <u>https://doi.org/10.1111/soc4.12822</u>
- Anderson, Tammy, Jascha Wagner*, Guanwen Qi, Steve Martin, Daniel O'Connell, and Ellen Donnelly. (2020)."Prescription Drug Histories among Drug Overdose Decedents in Delaware." Substance Use & Misuse. 55(11): 1892-1899. <u>http://doi.org/10.1080/10826084.2020.1775650</u>
- 10. Niven, David and Ellen Donnelly. (2020). "Who Challenges Disparities in Capital Punishment?: An Analysis of State Legislative Floor Debates on Death Penalty Reform." *Journal of Ethnicity in Criminal Justice*. 18(2): 95-122. <u>https://doi.org/10.1080/15377938.2019.1710316</u>

- 9. Donnelly, Ellen and Nicole Salvatore**. (2019). "Emerging Patterns in Federal Responses to Police Misconduct: A Review of "Pattern and Practice" Agreements over Time." Criminology, Criminal Justice, Law & Society. <u>https://bit.ly/3fhiQ0x</u>
- 8. Dollar, Cindy, Ellen Donnelly, and Karen Parker. (2019). "Joblessness, Poverty and Neighborhood Crime: Testing Wilson's Assertions of Jobless Poverty." Social Currents. 6(4): 343–360. <u>https://doi.org/10.1177/2329496519836075</u>
- 7. Donnelly, Ellen. (2019). "Do Disproportionate Minority Contact (DMC) Mandate Reforms Change Decision-making? : Decomposing Disparities in the Juvenile Justice System." Youth Violence and Juvenile Justice. 17(3): 288-308. <u>https://doi.org/10.1177/1541204018790667</u>
- 6. MacDonald, John and Ellen Donnelly. (2019)."Evaluating the Role of Race in Sentencing: An Entropy Weighting Analysis." Justice Quarterly. 36 (4): 656-681. <u>https://doi.org/10.1080/07418825.2017.1415368</u>
- Donnelly, Ellen and John MacDonald. (2018). "The Downstream Effects of Bail and Pretrial Detention on Racial Disparities in Incarceration." *Journal of Criminal Law and Criminology*. 108 (4), 775-814. <u>https://scholarlycommons.law.northwestern.edu/jclc/vol108/iss4/4/</u>
- 4. Donnelly, Ellen. (2018). "Can Legislatures Redress Racial Discrimination in Capital Punishment? : Evaluating Racial Justice Acts in Response to *McCleskey*." *The Journal of Criminal Law.* 82 (5): 388-401. <u>https://doi.org/10.1177/0022018318787252</u>
- 3. Donnelly, Ellen. (2017). "Racial Disparity Reform: Racial Inequality and Policy Responses in U.S. National Politics." *Journal of Crime and Justice*. 40 (4), 462-477. <u>https://doi.org/10.1080/0735648X.2016.1176950</u>
 - Featured in Taylor and Francis' Scholarship Supporting the Fight Against Racism and Inequality: <u>https://taylorandfrancis.com/socialjustice/#</u>
- Donnelly, Ellen. (2017). "The Politics of Racial Disparity Reform: Racial Inequality and Criminal Justice Policymaking in the States." *American Journal of Criminal Justice*. 42 (1), 1-27. <u>https://doi.org/10.1007/s12103-016-9344-8</u>
- Donnelly, Ellen. (2017). "The Disproportionate Minority Contact (DMC) Mandate: An Examination of Its Impacts on Juvenile Justice Processing Outcomes (1997-2011)." Criminal Justice Policy Review. 28 (4), 347-369. <u>https://doi.org/10.1177/0887403415585139</u>

BOOK CHAPTERS & OTHER PUBLICATIONS

- 3. Donnelly, Ellen and Emily Tavares-Sanches**. (2022). "Race and Advancements in Sentencing Research." In Oxford Bibliographies in Criminology of Oxford University Press. Ed. Beth M. Huebner. New York: Oxford University Press. <u>https://doi.org/10.1093/obo/9780195396607-0321</u>
- Boruch, Robert and Ellen Donnelly. (2015). "Privacy of Individuals in Social Research Confidentiality." In James Wright (ed.) *International Encyclopedia of Social and Behavioral Sciences*, 2015.
- 1. Donnelly, Ellen. (2010). "Understanding the 'God Talk Paradox': A Review of Presidential Religious Rhetoric and Public Opinion." *A Dialogue on Presidential Challenges and Leadership: Papers of The 2009-2010 Center Fellows*.

FUNDING & GRANT INVOLVEMENT

State of Delaware- Criminal Justice Council. Delaware's COAP Saving Lives. Funded by: Bureau of Justice Assistance. Comprehensive Opioid Abuse Site-based Program (COAP). Subgrant Number: 2019-AR-Passthru-2663. PI: Daniel O'Connell. Role: Co-Principal Investigator. 5/2021-Present <u>https://bja.ojp.gov/funding/awards/2019-ar-bx-k047</u>

- State of Delaware- Criminal Justice Council. Delaware's 2019 Second Chance Act: Innovations in Reentry Initiative: Focus on Evidence-Based Strategies for Successful Reentry from Incarceration to Community. (2019-CZ-BX-0030). PI: Daniel O'Connell. Role: Co-Principal Investigator. 4/2021-Present. <u>https://bja.ojp.gov/funding/awards/2019-cz-bx-0030</u>
- State of Delaware. Delaware's 2017 Second Chance Act: Innovations in Reentry Initiative: Focus on Evidence-Based Strategies for Successful Reentry from Incarceration to Community. (2017-CZ-BX-0010). PI: Daniel O'Connell. Role: Data Analyst. 11/2021-1/2022. https://bja.ojp.gov/funding/awards/2017-cz-bx-0010
- New Castle County. Hero Help- Addiction and Behavioral Health Project (2019-AR-BX-K027) & Addiction and Behavioral Health Unit (2019-MO-BX-0013). Funded by: Bureau of Justice Assistance. Agency lead: New Castle County Division of Police. PI: Daniel O'Connell. Role: Co-Principal Investigator. 6/2020-Present. <u>https://bja.ojp.gov/funding/awards/2019-ar-bx-k027 & https://bja.ojp.gov/funding/awards/2019-mo-bx-0013</u>
- Duke University School of Medicine. PI: Jeffrey Swanson. Funded by: Joyce Foundation. Juvenile Delinquency and Adult Gun Sales (JDAGS). University of Delaware Subaward. PI: Christy Visher. Role: Co-Principal Investigator. 9/2019-Present
- National Institute of Justice, US Department of Justice. *Delaware Opioid Metric Intelligence Project*. (2017-IJ-CX-0016). PI: Tammy L. Anderson. Role: Co-Investigator. 11/2018-8/2020. <u>https://nij.ojp.gov/funding/awards/2017-ij-cx-0016</u> & <u>https://www.cdhs.udel.edu/projects/domip</u>
- State of Delaware Administrative Office of the Courts. *Examining the Social Causes of Arrests and Criminal Processing in Delaware*. PI: Ellen Donnelly, Co-PI: Karen Parker. 7/2018- 2/2019.
- State of Delaware Administrative Office of the Courts. *Evaluating the Role of Race in Criminal Justice Adjudications in Delaware*. PI: John MacDonald. Role: Ph.D. Research Associate. 1/2016-7/2016.

TECHNICAL REPORTS

- 4. O'Connell, Daniel, Ellen Donnelly, Dorothy Dillard, and Tanya Whittle. May 2022. "Delaware's KEY CREST 2015 Continuum of Care Treatment Evaluation." Submitted to the Delaware Department of Correction.
- 3. Donnelly, Ellen and Karen Parker. Feb. 2019. "Examining the Social Causes of Arrest and Criminal Processing in Delaware." Submitted to the Administrative Office of the Courts.
- 2. Donnelly, Ellen and John MacDonald. Mar. 2017. "Extension of Delaware Disparity Study: Assessing Bail Processes and Pretrial Decision-Making." Submitted to Chief Justice Leo Strine & Access to Justice Commission. Findings reproduced by Chief Magistrate Alan Davis at: www.dcjustice.org/wp-content/uploads/2013/08/UUDAN-presentation.pptx
- 1. MacDonald, John and Ellen Donnelly. Sep. 2016. "Evaluating the Role of Race in Criminal Justice Adjudications in Delaware." Submitted to Chief Justice Leo Strine & Access to Justice Commission. <u>http://courts.delaware.gov/supreme/docs/DE_DisparityReport.pdf</u>

PRESENTATIONS

Professional Association Presentations

- "Opioid Overdose Responses by Law Enforcement and Their Community Impacts," Thematic Panel Law Enforcement and Public Health Responses to Opioid Overdoses. American Society of Criminology, Atlanta, GA. November 2022.
- "Changing Paradigms in Changing Times: Policing Substance Use and Mental Health Issues." American Society of Criminology, Chicago, November 2021.

- "Addressing the Opioid Crisis in Delaware: The Hero Help Program as a Case Study in Addiction and Behavioral Health Responses Among Law Enforcement," International Conference on Law Enforcement & Public Health, Philadelphia, March 2021 (Online).
- "Disparities in the Distances Drug Offenders Travel: The Roles of Race, Community, and Substance Type," American Society of Criminology, Washington DC, November 2020. Cancelled due to COVID-19.
- "Revisiting Neighborhood Context and Racial Disparities in Drug Arrests Under the Opioid Epidemic," American Society of Criminology, San Francisco, CA, November 2019.
- "An Empirical Examination of Competing Macro-Level Perspectives to Understand Race and Increased Social Control in Juvenile Justice Proceedings," (Co-Presenter w/Michael Leiber and Yunmei (Iris) Lu of University of South Florida) American Society of Criminology, San Francisco, CA, November 2019.
- "The Impacts of Neighborhood Disadvantage on Racial Disparities in Incarceration Sentencing," Law and Society Association, Washington D.C., June 2019.
- "Decomposing Disparities in Juvenile Processing for Policy Intervention," American Society of Criminology, Atlanta, GA, November 2018.
- "Reform under Racial Innocence: Politics, Capital Punishment, and the Limits of U.S. Racial Justice Legislation," Law and Society Association, Toronto, CA, June 2018.
- "Impacts of Federal Investigations on Diversity and Decision-making in Law Enforcement," American Society of Criminology, Philadelphia, PA, November 2017.
- "The Politics of Racial Disparity Reform: Racial Inequality and Criminal Justice Policymaking in the States," Law and Society Association, Seattle, WA, May 2015 and American Society of Criminology, Washington D.C., November 2015.
- "The Political Emergence of Racial Disparity Reforms in the U.S. Criminal Justice System (1968-2014)," American Society of Criminology, San Francisco, CA, November 2014
- "In Pursuit of Racial Justice: Assessing the Consequences of Racial Disparity Reform in the U.S. Criminal Justice System," American Political Science Association, Washington D.C., August 2014
- "Toward Racial Disparity Reform in the U.S. Criminal Justice System: An Examination of the Development and Consequences of the Disproportionate Minority Contact Mandate," Law and Society Association, Minneapolis, MN, May 2014.
- "Assessing the Origins and Consequences of the Disproportionate Minority Contact Mandate." American Society of Criminology, Atlanta, GA, November 2013.

Invited Presentations

- "But I Need It Now: Overcoming Communication Barriers Between Entities in Police Diversion Practice." Delaware Behavioral Health and Criminal Justice Summit, Wilmington, DE, May 2023
- "Mitigating Racial and Ethnic Disparities Conversation Series." Center for Evidence-Based Crime Policy Symposium, George Mason University, June 2022
- "Opioids, Race, and Drug Enforcement: Exploring Local Relationships Between Neighborhood Context and Black–White Opioid-Related Possession Arrests." Health in Justice Action Lab. Northeastern University School of Law, November 2020 (Online).
- "What Context Matters and at What Level? A Test of Racial/Ethnic Threat, Symbolic Threat, and Structural Inequality Perspectives in Juvenile Court Decision-making." A Tribute to Dr. Michael Leiber: Research on Racial/Ethnic Disparities in Juvenile Court. Midwestern Criminal Justice Association, September 2020 (Online).
- "Developing and Using Metrics to Reduce Opioid-related Problems in Delaware." Center for Evidence-Based Crime Policy Symposium, George Mason University, June 2019

- Uncovering the Legal and Extralegal Sources of Racial Disparity in the Delaware Justice System." University of Delaware, Legal Studies Program, April 2019
- "Uncovering the Legal and Extralegal Sources of Racial Disparity in the Delaware Justice System." Delaware Judges Conference, Rehoboth, DE, October 2018
- "The Downstream Effects of Bail and Pretrial Detention on Racial Disparities in Incarceration." Northwestern University Law School, Chicago, IL, February 2018
- "Evaluating the Role of Race in Criminal Justice Adjudications in Delaware," Chief Justice and Access to Justice Commission, Wilmington, DE, June, August, and September 2016

Other Conferences

- Penn Program on Democracy, Citizenship and Constitutionalism, PA, March 2015
- Philadelphia Region American Politics Conference, Philadelphia, PA, September 2015
- Penn Institute for Urban Research Doctoral Symposium, Philadelphia, PA, February 2015

RESEARCH & POLICY EXPERIENCE

Faculty Researcher, Race, Justice, Policy Research Initiative	2017-2021
Consultant, Delaware Administrative Office of the Courts	2016-2019
Director, Fels Lab, Fels Institute of Government, University of Pennsylvania	2016-2017
Research Associate, Center for Social and Policy Studies, Swarthmore College	2010-2015
Research Assistant, Prof. Robert Boruch, University of Pennsylvania (GSE)	2012-2013
Researcher Assistant, Public/Private Ventures, Philadelphia, PA	Summer 2008

TEACHING EXPERIENCE

University of Delaware

Graduate

Advanced Data Analysis, Spring 2020, Spring 2022, Spring 2024 <u>Undergraduate</u> Data Science for Criminal Justice, Spring 2019, Fall 2021 (online), Fall 2022 Criminology, Summer 2017, Fall 2017, Fall 2018, Spring 2021 (online), Summer 2022 (online), Fall 2022 (online), Spring 2023 Problems in the Criminal Judiciary, Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2020 (online), Spring 2021 (online), Fall 2021 (online), Fall 2022 (online), Spring 2023, Fall 2023

University of Pennsylvania

Graduate

Data Science for Public Policy (w/Nelson Lim), Fall 2016 (Co-Instructor) Statistics for Public Policy, Fall 2015 (Lab Instructor) Research Methods II and Crime Analysis, Spring 2015 (Lab Instructor) <u>Undergraduate</u> Criminology, Fall 2016 Politics of Poverty and Development, Summer 2015 (Liberal and Professional Studies) American Political Thought, Spring 2013 (Teaching Assistant) Civil Rights and Civil Liberties, Spring 2012 (Teaching Assistant) The Public Policy Process, Fall 2011, Fall 2012 (Teaching Assistant)

Swarthmore College

Statistics for Economists, Spring 2009 (Head Teaching Assistant) Statistics for Economists, Spring 2007& Fall 2008 (Teaching Assistant)

ACADEMIC SERVICE

Institutional Committees: CAS Faculty Senate (2018-2020); Sociology and Criminal Justice Department Policy Committee (2020-2021); Sociology and Criminal Justice Department Bylaws Committee (2021-2023); Sociology and Criminal Justice Undergraduate Policy Committee (2019-2020); Phi Beta Kappa Selection Committee (2021-present); Legal Studies (2019-present); Race, Justice, Policy Research Initiative (2017-2021)

Summer Instructor: R Workshop Series for Faculty and Graduate Students (2018).

Outside Examiner: Swarthmore College Honors Program (Political Science Department) (2018, 2019, 2021, 2022).

Reviewer: American Journal of Criminal Justice; American Journal of Preventive Medicine; Criminal Justice Policy Review; Criminal Justice Studies; Criminology; Criminology & Public Policy; Feminist Criminology; Journal of Crime and Justice; Journal of Community Safety and Well Being; Journal of Empirical Legal Studies; Journal of Ethnicity in Criminal Justice; Journal of Policy Analysis and Management; Journal of Public Policy; Journal of Race, Ethnicity, and Politics; Justice Quarterly; Justice System Journal; Oxford University Press; Law and Science Dissertation Grant Program at Arizona State University; PLOS One; Policing: An International Journal; Population Review; Race and Social Problems; Scientific Reports- Nature, Social Problems; The Sociological Quarterly; Sociology Compass; Victims and Offenders, William T. Grant Foundation.

Conference Leadership: Sub-Area Chair- Pretrial Justice- American Society of Criminology (2022). Panel Chair- American Society of Criminology (2015)

Professional Memberships: American Society of Criminology

ADVISING

Graduate

Ph.D. Thesis Committee Member (completion date): Madeline Stenger (Summer 2022; now at Duke University School of Medicine); Andrew Gray (Spring 2022, now at Ball State University); Jascha Wagner (Spring 2020; initial placement at Texas A&M International University); Rachel Ryding (Spring 2021; initial placement at Center for Drug and Health Studies, University of Delaware).
M.A. Thesis Committee Member (completion date): Spring 2021; Fall 2018
Incoming Ph.D. Student Faculty Mentor: Fall 2021; Fall 2019; Fall 2018

Undergraduate

McNair Summer Scholar Program, Research Mentor: Summer 2022, Summer 2021, Summer 2020, Summer 2019 Summer Scholar Program, Research Mentor: Summer 2018 Undergraduate Teaching Assistantship, Supervisor: Spring 2018

ACADEMIC HONORS

Jan Burrows Graduate Educator Award, University of Delaware, 2021 Best Poster on Public Policy, American Political Science Association, 2014 School of Arts and Sciences Dean's Award for Distinguished Teaching by Graduate Students, University of Pennsylvania, 2012-2013 Leo E. Rowe Memorial Fellow, University of Pennsylvania, 2010-2011, 2014-2015 Benjamin Franklin Fellow, University of Pennsylvania, 2010-2015 Phi Beta Kappa, Swarthmore College, 2010 Presidential Fellow, Center for the Study of the Presidency and Congress, 2009-2010 Galbraith Scholar Honorable Mention, Harvard Kennedy School of Government, 2008 Lang Opportunity Scholar, Swarthmore College, 2007-2010

SKILLS

Computer: Microsoft Office Access, Nvivo, QDA Miner, R (geocoding, webscraping, SQL, Shiny) *Statistical packages:* Advanced knowledge of STATA and R, Proficient in SAS and SPSS