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EDUCATION

- 2012 Ph.D., Social Service Administration**, University of Chicago, Chicago, IL
Dissertation title: *Connected, Known and Protected: African American Adolescent Males Navigating Community Violence*. Chair: Melissa Roderick; Committee: Waldo Johnson, Mario Small, Camille Farrington
Comprehensive/prelim exam fields: Social Inequality, Life Course Development
- 2006 M.S.W.**, University of Michigan, Ann Arbor
Awards: Merit Scholar; Olivia P. Maynard Fellow
- 2004 B.A., Anthropology and Political Science**, University of North Carolina, Greensboro, with honors

ACADEMIC APPOINTMENTS

- 2018- Present** **Associate Professor, w/tenure** Columbia University School of Social Work, Courtesy appointment in Sociology. Member of Data Science Institute
- 2015 – 2018** **Assistant Professor**, Columbia University School of Social Work
Courtesy appointment in Sociology
- 2017 – 2018** **Fellow**, Berkman Klein Center for Internet and Society, Harvard University; Current Faculty Associate
- 2012 – June 2015** **Assistant Professor**, University of Michigan School of Social Work & School of Information

AWARDS, DISTINCTIONS AND FELLOWSHIPS

- 2019 **Fellow**, Carr Center for Human Rights Policy, Harvard Kennedy School
2019 **Fellow**, Social for Social Work and Research
2019 **Presidential Leadership Scholar**

- 2018 **Deborah K. Padgett Early Career Achievement Award**, Society for Social Work and Research
- 2018 **Obama Foundation Fellowship** Finalist
- 2016 **Certificate of Appreciation for Educators**, Manhattan Borough President
- 2014 **Commencement Speaker**, University of Michigan School of Social Work
- 2013 **Golden Apple Award Nominee** (for outstanding teaching), University of Michigan
- 2013 **Michigan Road Scholars awardee**, University of Michigan
- 2008 **Doctoral Theory Fellowship**, University of Chicago
- 2006 **Education Pioneers Fellowship**, University of Michigan
- 2004 **Undergraduate Research Fellowship**, UNC-Greensboro
- 2004 **Honors College graduate**, UNC-Greensboro

PUBLICATIONS

Articles in Refereed Journals

1. **Patton, D.U.**, Pyooz, D., Decker, S., Leonard, P., & Frey, W (In Press) When Twitter fingers turn to trigger fingers: A sociolinguistic study of internet-mediated gang violence. *International Journal of Bullying Prevention*
2. **Patton, D.U.**, Blandfort, P., Frey, W., Schifanella, R., McGregor, K., Chang, S.F. VATAS: An Open-Source Web Platform for Visual and Textual Analysis of Social Media. (In Press) *Journal of the Society for Social Work and Research*.
3. Blandfort,P., **Patton, D.U** Bhargava, S., Chang, Shih-Fu.,, Frey, W., , Gaskell, M., Karaman, S., Schifanella, R., McKeown, K., Chang, S. Multimodal Detection of Aggression, Loss and Substance Use in Tweets of Chicago Gang Members. MM '18 Proceedings of the 2018 ACM on Multimedia Conference
4. Crosby, S., **Patton, D.U.** Duncan, D., Smith Lee, J., (In Prcess) Framing Neighborhood Safety and Academic Success: Perspectives from High- Achieving Black Youth in Chicago. *Children, Youth and Environments*.
5. **Patton, D.U.**, Blandfort, P., Frey, W., Gaskell, M., Karaman, S. Annotating Social Media Data From Vulnerable Populations: Evaluation Disagreement Between Domain Experts and Graduate Student Annotators. *In the Proceedings of the Hawaii International Conference on Systems Science 52*
6. Chang, S., Varia, S., Lee, Fei-Tzin., Kedzie, C., **Patton, D.U.**, Frey, W. McKeown, K. Detecting Gang-Involved Escalation on Social Media Using Context. *18' Proceedings of the Conference on Empirical Methods in Natural Language Processing*. 10% acceptance rate.
7. Frey, W. **Patton, D.U.**, Gaskell, M., & McGregor, K. (2018) Artificial intelligence and inclusion: Formerly gang-involved youth as domain experts for analyzing

unstructured Twitter data. *Social Science Computer Review*

8. **Patton, D.U.**, Macbeth, J., Shoenbeck, S., Shear, K., & McKeown, K. (2018). Accommodating grief on Twitter: An analysis of expressions of grief among gang involved youth on Twitter using qualitative analysis and natural language processing. *Biomedical Informatics Insights*. 10, 117822618763155. DOI: 10.117/117222618763155
9. **Patton, D.U.**, Rambow, O., Auerbach, J., Li, K., & Frey, W. (2018). Expressions of loss predict aggressive comments on Twitter among gang involved youth in Chicago. *Nature Partner Journal: Digital Medicine*. 1.11. DOI: 10.1038/s4176-018-0020
10. **Patton, D.U.**, McGregor, K., & Slutkin, G. (2018). Youth violence prevention in a digital era. *Pediatrics*. E20172438; DOI: 10.1542/peds.2017-2438
11. **Patton, D.U.**, Dungy, L., Hong, J.S., & Leonard, P. (2017). Gang violence, crime and substance use on Twitter: A snapshot of gang communications in Detroit. *Violence and Victims*. 32, pp 919-934 (16). DOI: 10.191/0886-6708 VV D-16-00040
12. Tan, K., **Patton, D.U.**, & Cordova, D. (2018). School factors and adolescent substance abuse: Are there differences by population density? *Journal of Social Work Practice in the Addictions*. 18:2, 153-167, DOI: 10.1080/1533256X.2018.1450263
13. **Patton, D.U.**, Leonard, P., Eschmann, R.D., Patel, S., Elsaesser, C., & Crosby, S. (Online First) What's a threat on social media? How Black and Latino young men in Chicago navigate threats online. *Youth & Society*. DOI: 10.1177/0044118X177yout20325
14. Hollingsworth, L.D., **Patton, D.U.**, Allen, P.C., & Bryant, K.E. (2018). Racial microaggressions in social work education: Black students' encounters in a predominantly White institution. *Journal of Ethnic and Cultural Diversity in Social Work*. DOI: 10.1080/15313204.2017.1417942
15. Elsaesser, C., Russell, B., Ohannessian, C.M., & **Patton, D.U.** (2017). Parenting in a digital age: A review of parents' role in preventing adolescent cyberbullying. *Aggression and Violent Behavior*, 35, 62-72. DOI: 10.1016/j.avb.2017.06.004
16. **Patton, D.U.**, Brunton, D., Dixon, A., Hackman, R.J., & Miller R. (2017). Stop and frisk online: Theorizing everyday racism in digital policing in the use of social media for the identification of criminal conduct and associations. *Social Media + Society*. DOI: 10.1177/2056305117733344
17. **Patton, D.U.**, Hong, J.S., Patel, S., & Kral, M. (2017). A systematic review of research strategies used in qualitative studies on school bullying and victimization. *Trauma, Violence and Abuse*, 18(1), 3-16. DOI: 10.1177/1524838015588502
18. **Patton, D.U.**, Sodhi, A., Lee, J., Affinati, S., & Crandall, M. (2016). Post-discharge needs of victims of gun violence in Chicago: A qualitative study. *Journal of*

Interpersonal Violence, 1-21. DOI: 10.1177/0886260516669545

19. **Patton, D.U.**, McKeown, K., Rambow, O., & MacBeth, J. (2016). Using natural language processing and qualitative analysis to intervene in gang violence: A collaboration between a social work researcher and data scientist. *Proceedings of the Second Annual Data for Good Exchange Conference*. Retrieved from https://data.bloomberglp.com/company/sites/2/2016/09/paper_61.pdf
20. **Patton, D.U.**, Eschmann, R.D., Elsaesser, C., & Bocanegra, E. (2016). Sticks, stones and Facebook accounts: What violence outreach workers know about social media and urban-based gang violence in Chicago. *Computers in Human Behavior*, 65, 591-600. DOI: 10.1016/j.chb.2016.05.052
21. **Patton, D.U.**, & Roth, B. (2016). Good kids with ties to deviant peers: Network strategies used by African American and Latino young men in violent neighborhoods. *Children and Youth Service Review*, 66, 123-130. DOI: 10.1016/j.chilyouth.2016.04.020
22. **Patton, D.U.**, Leonard, P., Lane, J., & Macbeth, J. (2016). Gang violence on the digital street: A case study of a South Side Chicago gang member's Twitter communication. *New Media and Society*, 1-19. DOI: 10.1177/1461444815625949 ***NMS's most-read article in February 2016***
23. **Patton, D.U.**, Miller, R.J., Garbarino, J., Gale, A., & Kornfeld, E. (2016). Hardiness scripts: High-achieving African American boys in a Chicago charter school navigating community violence and school. *Journal of Community Psychology*. 44(5), 638-655. DOI: 10.1002/jcop.21791
24. **Patton, D.U.**, Leonard, P., Cahill, L., Macbeth, J., Crosby, S., & Brunton, D. (2016). "Police took my homie I dedicate my life 2 his revenge": Twitter tensions between gang-involved youth and police in Chicago. *Journal of Human Behavior in the Social Environment*, 26(3-4), 310-324. DOI: 10.1080/10911359.2015.1127738
25. Blevins, T., Kwitakowski, R., Macbeth, J., McKeown, K., **Patton, D.U.**, & Rambow, O. (2016). Automatically processing tweets from gang-involved youth: Towards detecting loss and aggression. *Proceedings of COLING 2016, the 26th International Conference on Computational Linguistics: Technical Papers*, 2196-2206. Retrieved from: <http://aclweb.org/anthology/C/C16/C16-1207.pdf>
Authors are in alphabetical order
26. Affinati, S., **Patton, D.U.**, Hansen, L., Ranney, M., Christmas, A.B., Violano, P., Sodhi, A., Robinson, B. & Crandall, M. (2016). Hospital-based violence intervention programs targeting adult populations: An Eastern Association for the Surgery of Trauma evidence-based review. *Trauma Surgery and Acute Care Open*, 1 (1). DOI: 10.1136/tsaco-2016-000024

27. Watkins, D.C., **Patton, D.U.**, & Miller, R.J. (2016). Introduction to the special issue on the intersections of race, gender, and class in the wake of a national crisis: The state of Black boys and men post-Ferguson. *Journal of Men's Studies*, 24(2), 119-129. DOI: 10.1177/1060826516641108
28. Washington, T., Rose, T., Coard, S., **Patton, D.U.**, Young, S., Giles, S., & Nolen, M. (2016). Family-level factors, depression, and anxiety among African American children: A systematic review. *Child and Youth Care Forum*. DOI: 10.1007/s10566-016-9372-z
29. Hong, J.S., Lee, J., Espelage, D.L., Hunter, S.C., **Patton, D.U.**, & Rivers, Jr., T. (2016). Understanding the correlates of face-to-face and cyberbullying victimization among U.S. adolescents: A social-ecological analysis. *Violence and Victims*, 31(4), 638-663 .
30. Smith, J.R., & **Patton, D.U.** (2016). Posttraumatic stress symptoms in context: Examining trauma responses to violent exposures and homicide death among Black males in urban neighborhoods. *Journal of Orthopsychiatry*, 86(2), 212-223. DOI: 10.1037/ort0000101
31. **Patton, D.U.**, Sanchez, N., Fitch, D., Macbeth, J., & Leonard, P. (2015). I know God's got a day 4 me: Violence, trauma and coping among gang-involved Twitter users. *Social Science Computer Review*, 1-18. DOI: 10.1177/0894439315613319
32. **Patton, D.U.**, & Miller, R.J. (2015). Examining the relationship between adolescent violence exposure and adulthood violence perpetration among urban Black and African American men. *Academy of Violence and Abuse Research Review*, 5(February), 1-4.
33. Miller, R., Miller, J., Djoric, J., & **Patton, D. U.** (2015). Baldwin's mill: Race, punishment, and the pedagogy of repression, 1965-2015. *Humanity and Society*, 39(4), 456-475. DOI: 10.1177/0160597615609188
34. Miller, R.J., **Patton, D.U.**, & Williams, E. (2015). Rethinking prisoner reentry. *Offender Program Reports*, 19(1), 1-4.
35. **Patton, D.U.**, Hong, J.S., Ranney, M., Patel, S., Kelley, C., Eschmann, R.D., & Washington, T. (2014). Social media as a vector for youth violence: A review of literature. *Computers in Human Behavior*, 35, 548-553. DOI: 10.1016/j.chb.2014.02.043
36. Hong, J.S., Huang, H., Golden, M., **Patton, D.U.**, & Washington, T. (2014). Are community violence-exposed youth at risk of engaging in delinquent behavior? A review and implications for residential treatment research and practice. *Residential Treatment for Children & Youth*, 31(4), 266-283. DOI: 10.1080/0886571X.2014.958343
37. **Patton, D.U.**, Hong, J.S., Williams, A.B., & Allen-Meares, P. (2013). A review of

research on school bullying among African American youth: An ecological systems analysis. *Educational Psychology Review* 25(2), 245-260. DOI: 10.1007/s10648-013-9221-7

38. **Patton, D.U.**, Eschmann, R.D. & Butler, D.A. (2013). Internet banging: New trends in social media, gang violence, masculinity and hip hop. *Computers in Human Behavior*, 29(5), A54-A59. DOI: 10.1016/j.chb.2012.12.035
39. **Patton, D.U.**, Woolley, M.E., & Hong, J.S. (2012). Exposure to violence, student fear, and low academic achievement: African American males in the critical transition to high school. *Children and Youth Service Review*, 34(2), 388-395. DOI: 10.1016/j.childyouth.2011.11.009
40. **Patton, D.U.**, & Johnson, D.W. (2010). Exposure to community violence and social capital: African American students in the critical transition to high school. *Harvard Journal of African American Public Policy*, 16, 53-72.

Articles under Review

- **Patton, D.U.**, Frey, W., McGregor, K., Lee, F., McKeown, K., Contextual Analysis of Social Media: A Qualitative Approach to Eliciting Context in Social Media Posts with Natural Language Processing.
- Blandfort, P., Hees, J., **Patton, D.U.** An Overview of Computational Approaches for Interpretation Analysis.
- Sodhi, A., Choma, D., Steve, J., **Patton, D.U.**, Crandall, M. Social Media representations of law enforcement within four diverse Chicago neighborhoods.
- Elsaesser, C., **Patton, D.U.** Kelley, A., Santiago, J., Clarke, A. Avoiding Fights on Social Media: Strategies youth leverage to navigate conflict in a digital era.
- **Patton, D.U.**, Stevens, R., Smith, J., Obanye, G., & Frey, W. You set me up: Gendered perceptions of Twitter communication that leads to offline violence.

Manuscripts in Progress

- Gaskell, M.B., **Patton, D.U.**, & Frey, W. Depictions of guns on Twitter among gang-involved youth.

Book Chapters

1. Miller, R. J., Delva, J., & **Patton, D. U.** (In press). Using groups in criminal justice settings. In C.D. Garvin, L.M. Gutierrez, and M.J. Galinsky (Eds.), *Handbook of Social Work with Groups* (2nd ed.). New York: Guilford.
2. Hong, J.S., & **Patton, D.U.** (2014). Gangs in schools. In L.H. Cousins (Ed.), *Encyclopedia of Human Services and Diversity* (pp. 573-574). Thousand Oaks, CA: Sage.
3. **Patton, D.U.** (2013). Between two worlds: Resilient African American adolescent males navigating community violence. In M.S. Harris (Ed.), *African American Perspectives: Family Dynamics, Health Care Issues and the Role of Ethnic Identity*. New York: Nova Science Publishers.
4. **Patton, D.U.**, & Garbarino, J. (2013). The hurting child inside the young Black male. In K.C. Vaughans & W. Spielberg (Eds.), *The Psychology of Black Boys and Adolescents* (pp. 541-552). Santa Barbara, CA: Praeger.
5. Woolley, M.E., & **Patton, D.U.** (2009). School violence. In D. Carr (Ed.), *Encyclopedia of the Life Course and Human Development, Vol. 1: Childhood and Adolescence* (pp. 416-420). Detroit, MI: Macmillan Reference USA.

Book Reviews

1. **Patton, D.U.** (2013). Untitled review [Review of the book *The Other Wes Moore: One Name, Two Fates*, by W. Moore]. *Qualitative Social Work*, 12(1), 93-97.

Technical Reports

1. Mattescu, A., Brunton, D., Rosenblat, A., **Patton, D.U.**, Gold, Z., & boyd, d. (2015). *Social media surveillance and law enforcement*. Washington, DC: Data & Civil Rights. Retrieved from http://www.datacivilrights.org/pubs/2015-1027/Social_Media_Surveillance_and_Law_Enforcement.pdf
2. **Patton, D.U.** (2012). *Evaluation of safe passage in Chicago*. Chicago, IL: Children's Memorial Hospital.
3. **Patton, D.U.** (2011). Listening sessions final report. Chicago, IL: Children's Memorial Hospital.
4. Imai, R., **Patton, D.U.**, Rodkin, J., & Small, M. (2011). *Qualitative evaluation of the CPS 2010-2011 Mentor and Advocacy Program*. Chicago, IL: Chicago Public Schools.
5. Roderick, M., Nagaoka, J., Moeller, E; with Roddie, K., Gilliam, J., & **Patton, D.U.** (2008). *From high school to the future*. Chicago, IL: Consortium on Chicago School Research.

Retrieved from <https://consortium.uchicago.edu/publications/high-school-future-potholes-road-college>

Editorial Service

- 2018 Editorial Board. *Psychiatry and Mental Health*. Plos One
- 2018 Editorial Board of the book series *AI for Social Good*. Oxford University Press: Oxford, UK.
- 2016 Guest-edited special issue of *Journal of Men's Studies*, Intersections of race, gender, and class in the wake of a crisis: The state of boys and men of color post-Ferguson. Vol. 24, no. 2. ***Co-edited with Daphne Watkins and Reuben Miller***

EXTERNAL REVIEWER

City and Community
Computers in Human Behavior
Criminology
International Journal of Men's Health
Journal of Black Psychology
Journal of Orthopsychiatry
Justice Quarterly
Journal of Health Psychology
National Academies of Sciences, Engineering and Medicine
Nature Partner Journal: Digital Medicine
New Media and Society
Pediatrics
Qualitative Health Research
Qualitative Social Work
Social Work
Violence and Victims

SELECTED MEDIA COVERAGE

A&E. The Untold Story. (May 2019). Secret Life of a Gang Girl.

In Sickness and In Health. Podcast (May 2019). Gun Violence in America/ Violence is Contagious

NPR. Invisibilia Podcast. (March 2019). Post, Shoot.

Propublica. (February 2019). Chicago Public Schools Monitored Social Media for Signs of Violence, Gang Membership.

Chicago Sun Times (February 2019). *CPS, social media and curbing trouble among students*. <https://chicago.suntimes.com/opinion/editorial-cps-social-media-and-curbing-trouble-among-students/>

Public Security Today (January 2019). These companies are scouring social media for the next shooter. https://publicsecurity.today/social-media-listening-at-schools-stop-shooters/?fbclid=IwAR2eJ-YTB_4CD7JX0oAwOTPDJIGf3Se99AbG4ulR_7wEsmeF7Mj0dofOjQ0

Wttw PBS Chicago Tonight (November 2018). What social media posts can tell us about gang violence. <https://news.wttw.com/2018/11/15/what-social-media-posts-can-tell-us-about-gang-violence>

Voice of America News (November 2018). VR Project highlights social media policing. <https://www.voanews.com/a/4647919.html>

NATURE (September 2018). A murdered teen, two million tweets and an experiment to fight gun violence. <https://www.nature.com/articles/d41586-018-06169-8>

WIRED (August 2018). Schools are mining students' social media posts for signs of trouble. https://www.wired.com/story/algorithms-monitor-student-social-media-posts/?mbid=social_fb_onsiteshare

PIX11 New York (August 2018). Gangland NYC: Special report on gang crisis in aftermath of Junior's slaying. <https://pix11.com/2018/08/11/gangland-nyc-special-report-on-gang-crisis-in-aftermath-of-juniors-slaying/>

FOX32 Chicago (July 2018). Cook County Sheriff's Office team works to stop social media from fueling violence. <http://www.fox32chicago.com/news/local/cook-county-sheriff-s-office-team-works-to-stop-social-media-from-fueling-violence>

NPR (June 2018). Why Chicago's 'Gang Book' Is a Problem For Communities of Color. <https://www.npr.org/2018/06/29/624789878/why-chicagos-gang-book-is-a-problem-for-communities-of-color>

Washington Post (June 2018). How emoji can kill: As gangs move online, social media fuel violence. https://www.washingtonpost.com/news/science/wp/2018/06/13/how-emoji-can-kill-as-gangs-move-online-social-media-fuels-violence/?noredirect=on&utm_term=.0e4d6ee72fc9

VICE (May 2018). Three Gun Violence Scholars on What Is Missing From America's Gun Violence Debate. https://www.vice.com/en_ca/article/7xmxky/three-gun-violence-scholars-on-what-is-missing-from-americas-gun-control-debate?utm_campaign=sharebutton

Lynda Steele Show (April 2018). Is it possible to develop an algorithm to detect internet users who may be dangerous instead of those that may be just posing touch?
<https://omny.fm/shows/steele-drex/is-it-possible-to-develop-an-algorithm-to-detect-i>

Chicago Tribune (April 2018). Tweets from gang member's express grief over violence-but then to anger, researchers find.
<http://www.chicagotribune.com/news/local/breaking/ct-met-gang-internet-banging-study-20180406-story.html>

Microsoft (April 2018). Civil actions: How four simple rules can make the internet safer.
<https://news.microsoft.com/on-the-issues/2018/04/09/civil-actions-how-four-simple-rules-can-make-the-internet-safer/>

Washington Policy Podcast (February 2018). Understanding Social Media and Gang Violence. <https://washingtech.com/social-media-and-gang-violence/>

New York Times (January 2018). Interrupters Peek at Social Media to Stop Street Violence. <https://www.nytimes.com/2018/01/21/nyregion/facebook-violence-social-media-monitor.html>

The Social Work Podcast (January 2018). Social Media and Gang Violence - Interview with Desmond Patton, Ph.D.
<https://socialworkpodcast.blogspot.com/2018/01/patton.html>

Columbia School of Social Work (December 2017). Desmond Patton Receives Early Career Achievement Award from the Society for Social Work and Research.
<https://socialwork.columbia.edu/news/desmond-patton-receives-early-career-achievement-award-from-the-society-for-social-work-and-research/>

Fast Company (November 2017). Could Software Help Stop School Shootings?
<https://www.fastcompany.com/40477172/could-software-stop-school-shootings>

Columbia School of Social Work (November 2017). Is Social Media Surveillance the Virtual Stop-and-Frisk? New Study by Desmond Patton.
<https://socialwork.columbia.edu/news/social-media-surveillance-virtual-stop-frisk-new-study-desmond-patton/>

The Berkman Klein Center for Internet & Society (October 2017). How Facebook Tries to Regulate Postings Made by Two Billion People. <https://medium.com/berkman-klein-center/how-facebook-tries-to-regulate-postings-made-by-two-billion-people-bca9408b6b4b>

YouTube: The Berkman Klein Center for Internet & Society (October 2017). Fellow Friday: Desmond Patton. https://www.youtube.com/watch?v=HFdE_hHzwn8

Columbia University's Data Science Institute (September 2017). DSI Professors Mine Social Media to Curb Gang Violence. <http://datascience.columbia.edu/dsi-professors-mine-social-media-curb-gang-violence>

ABC News (September 2017). Law Enforcement Officials, Privacy Experts Discuss Social Media at Rutgers Police Institute. <https://youtu.be/AGE2T9gR0IU>

The Daily Dot (September 2017). From the Streets to Tweets, the Rise of "Internet Banging." <https://www.dailydot.com/irl/internet-banging/>

Lancet Child and Adolescent Health (September 2017). Media Violence and Youth Aggression. [http://www.thelancet.com/pdfs/journals/lanchi/PIIS2352-4642\(17\)30033-0.pdf](http://www.thelancet.com/pdfs/journals/lanchi/PIIS2352-4642(17)30033-0.pdf)

Richmond Times-Dispatch (June 2017). When Social Media Turns Antisocial. http://www.richmond.com/news/local/michael-paul-williams/williams-when-social-media-turns-antisocial/article_5ffe61ef-9c28-517c-bf92-82f7f34e2b83.html

New York Times (June 2017). The Digital Bystander Effect. <https://www.nytimes.com/video/us/100000005144290/the-digital-bystander.html>

TEDxBroadway (May 2017). They Are Children: How Posts on Social Media Lead to Gang Violence <https://www.tedxbradway.com/talks/2017/6/9/they-are-children-how-posts-on-social-media-lead-to-gang-violence-desmond-patton>

Fox10 (May 2017). Trending Violence: Are Social Media and Violence Related <http://www.fox10tv.com/story/35435737/trending-violence-are-social-media-and-violence-related>

Columbia Alum - Vimeo (May 2017). Columbia Commitment to Data Science. <https://vimeo.com/217054540>

Stanford News (May 2017). The Brown Institute, a Collaboration Between Stanford's School of Engineering and Columbia's School of Journalism, Announces 'Magic Grants' to Transform the World of Media. <https://news.stanford.edu/2017/05/04/brown-institute-announces-magic-grants-transform-world-media/>

The Trace (May 2017). We're Just Starting to Comprehend How Social Media Breeds Shootings. <https://www.thetrace.org/2017/05/twitter-social-media-gang-shooting-research/>

Politiken (May 2017). Experts: Facebook Users May Also Take Responsibility if the Brutal Murder Videos Must Be Stopped. <https://politiken.dk/kultur/medier/art5931294/Facebooks-brugere-m%C3%A5-ogs%C3%A5-selv-tage-ansvar-hvis-brutale-mordvideoer-skal-stoppes>

Uptown Radio (May 2017). Schwab Social Media Episode 4 Mixdown.
<https://soundcloud.com/uptownradio/schwab-social-media-e4-mixdown>

Salon (April 2017). Murder on Facebook Raises Big Censorship Questions: What Should Social-Media Companies Do about Violent Content?
<https://www.salon.com/2017/04/21/murder-on-facebook-raises-big-censorship-questions-what-should-social-media-companies-do-about-violent-content/>

Educational Video Center (April 2017). Escaping the Labels.
<https://vimeo.com/210802785>

Columbia School of Social Work (April 2017). Social Workers Need to Understand Impact of Cyber-interaction on Adolescents.
<https://socialwork.columbia.edu/news/austin-lecture-2017-social-workers-need-to-understand-impact-of-cyber-interaction-on-adolescents/>

YouTube: Columbia School of Social Work (March 2017). Tech is the Future, Even in Social Work. https://www.youtube.com/watch?v=RZtb_8FZUJ0

WBEZ 91.5 Chicago (February 2016). A Look at Facebook Live and Chicago Violence.
<https://www.wbez.org/shows/wbez-news/a-look-at-facebook-live-and-chicago-violence/e6f5685f-db8d-4fad-86cf-2be0daf19dbd>

University of Alabama News Center (February 2017). Guest Lecturer to Discuss Teen Violence, Social Media. <https://www.ua.edu/news/2017/02/guest-lecturer-to-discuss-teen-violence-social-media/>

Earth Institute – Columbia University (February 2017). Understanding Youth and Gang Violence on Social Media – Episode # 48. <https://soundcloud.com/ac4-columbia/youth-and-gang-violence-on-social-media-with-dr-desmond-patton>

Chicago Tonight (February 2017). How Social Media is Being Used to Prevent Chicago Violence. <http://chicagotonight.wttw.com/2017/02/10/how-social-media-being-used-prevent-chicago-violence>

The Atlantic (January 2017). The Desire to Live-Stream Violence.
<https://www.theatlantic.com/news/archive/2017/01/chicago-beating-facebook-live/512288/>

USA Today (January 2017). Facebook Live of Chicago Assault Raises Fear of Copycat Violence. <http://www.usatoday.com/story/news/nation/2017/01/06/chicago-facebook-assault/96254060/>

The Post and Courier (December 2016). Social Media Plays Increasing Role in Low Country Law Enforcement Investigations.
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National Public Radio - All Things Considered (September 2016). In Effort to Curb Violence in Chicago, a Professor Mines Social Media. <https://safelab.socialwork.columbia.edu/news/effort-curb-violence-chicago-professor-mines-social-media>

The Daily Dot (September 2016). From the Streets to Tweets, the Rise of 'Internet Banging'. <https://www.dailydot.com/irl/internet-banging/>

Columbia School of Social Work (August 2016). Professor Desmond Patton Collaborates with Data Scientist on ROADS-funded Project to Prevent Gang Violence. <https://socialwork.columbia.edu/news/professor-desmond-patton-collaborates-with-data-scientist-on-roads-funded-project-to-prevent-gang-violence/>

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Anchorage Daily News (June 2016). Why Chicago Leads in Homicides. <https://www.adn.com/nation-world/2016/5/28/why-chicago-leads-in-homicides/>

New York Times (May 2016). Chicago's Murder Problem. <https://www.nytimes.com/interactive/2016/05/18/us/chicago-murder-problem.html>

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National Public Radio - All Tech Considered (October 2015). When Social Media Fuels Gang Violence. <https://www.npr.org/sections/alltechconsidered/2015/10/07/446300514/when-social-media-fuels-gang-violence>

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Voice of America (August 2015). Social Media Shows Best, Worst Sides in Journalist Shootings. <http://www.voanews.com/content/social-media-shows-best-worst-sides-in-journalist-shooting/2934257.html>

News-Press (August 2015). Facebook Video Prompts Fort Myers Police Patrols. <http://www.news-press.com/story/news/local/2015/08/18/facebook-video-mcgregor-crime-threat-todd-chrisp-fort-myers/31929331/>

High Possibilities Classroom (July 2015). Social Media: Cyber Banging, Emojis and Teenagers. <http://www.highpossibilityclassrooms.com/social-media-cyber-banging-emojis-and-teenagers/>

Michigan Radio (May 2015). Internet Banging: How Social Media is Fueling Gang Violence. <http://michiganradio.org/post/internet-banging-how-social-media-fueling-gang-violence#stream/0>

Indianapolis Star (March 2015). Why Beat Up Someone on Camera? To Be Famous. <http://www.indystar.com/story/opinion/columnists/erika-smith/2015/03/20/smith-beat-someone-camera-famous/25084621/>

The Michigan Daily (September 2014). Students Gather to Reflect on Ferguson Incident over the Summer. <https://www.michigandaily.com/news/students-gather-reflect-ferguson-incident-over-summer>

Boston Magazine (September 2013). From Tweets to the Streets: Gang Activity Starts Online and Leads to Violence. <http://www.bostonmagazine.com/news/2013/09/27/social-media-and-gang-violence-study-twitter/>

PEER-REVIEWED PRESENTATIONS

- January 2019 *Accommodating Grief on Twitter*. Oral Presentation. Society for Social Work and Research Annual Conference, San Francisco, CA
- May 2018 *New frontiers for artificial intelligence in psychiatry: From personalized health to community care*. American Psychiatric Association Annual Meeting, New York, NY.
- January 2018 *Digital Urban Violence Analysis Approach*. Oral Presentation. Society for Social Work and Research Annual Conference, Washington, DC.
- January 2017 *Gang violence on the digital street: A case study of a southside Chicago gang member's Twitter communication*. Oral presentation. Society for Social Work and Research Annual Conference, New Orleans, LA.
- January 2017 *Sticks, stones and Facebook accounts: What violence outreach workers know about social media and urban-based gang violence in Chicago*. Poster presentation. Society for Social Work and Research Annual Conference, New Orleans, LA.
- December 2016 *Automatically processing tweets from gang-involved youth: Towards detecting loss and aggression*. COLING 2016: International Conference on Computational Linguistics, Osaka, Japan.
- October 2016 *Using natural language processing and qualitative analysis to intervene in gang violence: A collaboration between social work researchers and data scientists*. Bloomberg Data for Good Exchange Conference, New York, NY.
- November 2015 *Sticks, stones and Facebook accounts: What violence interrupters know about social media and urban-based gang violence in Chicago*. National Communication Association Annual Conference, Las Vegas, NV.
- May 2015 *Decoding gang violence on the digital street*. Oral presentation. Fourth Annual L.A. Gang Prevention & Intervention Conference, Los Angeles, CA.
- January 2015 *Innovations in social work research and practice with youth: The power of social media and technology*. Symposium Chair. Society for Social Work and Research Annual Conference, New Orleans, LA.
- January 2015 *Gang violence, crime, and substance use on Twitter: A snapshot of gang communications in Detroit*. Oral presentation. Society for Social Work and Research Annual Conference, New Orleans, LA.
- June 2014 *Lean on me: Black children's school achievement*. Symposium Chair and oral presentation. Division 45 APA Research Conference, Eugene, OR.
- March 2014 *Social media, gangs and youth violence*. Oral presentation. Sixth Annual Health Disparities Conference, Teacher's College, Columbia University, New York, NY.

- March 2014 *Recognizing collective efficacy on the ground.* Oral presentation. Urban Affairs Association, San Antonio, TX.
- March 2014 *Reflections: Low-income African American adults reflecting on pivotal turning points during adolescence.* Symposium chair and oral presentation. Society for Research on Adolescence, Austin, TX.
- May 2013 *Community violence, social media, and sexual risk-taking behaviors.* Oral presentation, Second Annual Teen Pregnancy Grantee Conference. Administration on Children, Youth and Families/Youth and Families Service Bureau. Baltimore, MD.
- May 2013 *Cognitive geocoding: African American males navigating community violence exposure and educational success.* Oral presentation. Society for Prevention Research, San Francisco, CA.
- March 2013 *Cognitive geocoding: African American adolescent males navigating community violence.* Oral presentation. Fifth Annual Health Disparities Conference at Teachers College, Columbia University, New York, NY.
- April 2013 *Internet banging* (with R. Eschmann). Oral presentation. Urban Affairs Association, San Francisco, CA.
- April 2013 *Sensitivity and data collection: Interviewing African American males.* Oral presentation. American Men's Studies Association, Ann Arbor, MI.
- January 2010 *Community violence, student fear and academic achievement: African American males in the critical transition to high school.* Oral presentation. Society of Social Work and Research (SSWR), San Francisco, CA.
- January 2009 *Neighborhood violence and the critical transition to high school.* Poster presentation. Society of Social Work and Research (SSWR), New Orleans, LA.
- February 2008 *Black boys, community violence and urban education.* Oral presentation. Live Oak, Inc., Chicago, IL.
- April 2004 *Gender and school achievement.* Oral presentation. Society for Applied Anthropology (SFAA), Dallas, TX.

INVITED PRESENTATIONS

- May 2019 *Community Data Science Approaches to Gang Violence Prevention.* University of Illinois, Urban Champaign, School of Social Work.
- April 2019 *Designing Contextually Drive AI Systems for Gun Violence Prevention with Chicago Youth.* Harvard Kennedy School.
- March 2019 *Analyzing Context in Social Media Posts.* Data and Society. New York, NY.

- March 2019 *Community Data Science Approaches to Gang Violence Prevention.* University of Buffalo School of Social Work
- December 2018 *Can AI Reduce Gang Violence or Cause More Harm.* The National Academies Roundtable on Data Science Secondary Education. Washington, DC.
- December 2018 *Community data science approaches to gang violence.* Brown Bag for the Connective Media Group, Cornell Tech, New York, NY.
- November 2018 *Community data science approaches to gang violence.* School of Information Science, Cornell University, Ithaca, NY.
- November 2018 *Community data science approaches to gang violence.* PRYDE, Department of Human Development, Cornell University, Ithaca, NY.
- October 2018 *Community data science approaches to gang violence.* NYU Child Study Center—Grand Rounds, New York University, New York, NY.
- October 2018 *Social media as a new mechanism for mass incarceration.* Symposium on the Law & Economics of Criminal Justice Reform, George Mason Antonin Scalia Law School, Fairfax, VA.
- May 2018 *Contextual analysis of social media a qualitative approach to eliciting context in social media posts with natural language processing.* Society for Prevention Research, Washington, D.C.
- April 2018 *Interpretation of social media data and ethical considerations.* The Berkman Klein Center for Internet & Society, Harvard University, Cambridge, MA.
- April 2018 *Innovating gang violence prevention with qualitative analysis, natural language processing, & computer vision.* University of Missouri—St. Louis, St. Louis, MO.
- March 2018 *Community-based approaches to detecting and predicting trauma and violence in Chicago using social media.* Columbia Population Research Center, Columbia University, New York, NY.
- February 2018 *Violence on the digital street: Intervening in aggression and loss using qualitative analysis and machine learning.* Center for Research on Computation and Society, Harvard University, Cambridge, MA.
- December 2017 *When twitter fingers turn to trigger fingers: using qualitative analysis and natural language processing to prevent social media-related gang violence.* Race, Politics, and Social Media: A Symposium, Boston University, Boston, MA.
- December 2017 *Identifying signals of violent content on social media.* Webinar. Teen Cancer Research Conference, Atlanta, GA.
- November 2017 *When Twitter fingers turn to trigger fingers.* 2017 Bicentennial Symposium, University of Michigan Institute for Social Research, Ann Arbor, MI.
- October 2017 *Innovating gang violence prevention.* Workshop: Social Media, Mobile

Technology, and Youth Risk Behaviors. National Institutes of Health (NIH) Office of Behavioral and Social Sciences Research, Washington, DC.

- October 2017 *Gang violence intervention work in the SAFElab*. Dean's Lecture. University of Texas—Austin School of Social Work, Austin, TX.
- October 2017 *Grieving on the digital street*. AI for Social Good: Setting the Agenda. University of Southern California's Center for Artificial Intelligence in Society, Los Angeles, CA.
- September 2017 *Transdisciplinary gang violence prevention*. Community Health Sciences: Defining the Field. Boston University's School of Public Health Symposium, Boston, MA.
- August 2017 *Innovating gang violence prevention with qualitative analysis and natural language processing*. University of Chicago Urban Labs—Crime Lab, Chicago, IL.
- August 2017 *Social media and gang violence*. Digital Mental Health Conference, London, England.
- July 2017 *Human-centered design and storytelling for gang violence prevention*. Microsoft Hackathon, Redmond, WA.
- July 2017 *Innovating gang violence prevention with qualitative analysis and natural language processing*. 15th Annual Workshop: Interrogating the Intersections of Race, Crime and Technology. Rutgers University's Center for Law and Justice, Newark, NJ.
- June 2017 *Grief, aggression, and violence prevention*. Harmful Speech Online: At the Intersection of Algorithms and Human Behavior. Harvard University, Cambridge, MA.
- June 2017 *When Twitter fingers turn to trigger fingers*. Kid Culture Keynote and Workshop. Center for Integrated Arts Education, University of Northern Colorado, Greeley, CO.
- May 2017 *Roots of trauma*. Grand Rounds Presentation. New York Presbyterian Hospital/Westchester, White Plains, NY.
- May 2017 *Innovating gang violence prevention*. Speaker. Munk School of Global Affairs. University of Toronto, Toronto, Ontario.
- April 2017 *Innovating gang violence prevention*. Keynote Speaker. Computational Research Day. Northwestern University, Chicago, IL.
- April 2017 *Twitter and gang violence prevention*. Speaker. Center for Artificial Intelligence and Society. University of Southern California, Los Angeles, CA.
- March 2017 *They are children: How posts on social media lead to gang violence*. TEDxBroadway 2017, New York, NY.
- March 2017 *Social media and gang violence prevention*. Keynote Speaker. Boston Design Museum, Boston, MA.

- February 2017 *Innovating gang violence prevention*. Keynote Speaker. University of Alabama School of Social Work, Tuscaloosa, AL.
- November 2016 *Gang violence on the digital street*. Speaker. University of Chicago School of Social Service Administration, Chicago, IL.
- November 2016 *Intervening in gang violence using qualitative analysis and natural language processing*. Keynote speaker. Rush University Medical School, Chicago, IL.
- October 2016 *Internet banging*. Keynote speaker. Justice Codes Symposium at John Jay College, New York, NY.
- May 2016 *Twitter as a tool for youth violence prevention*. Speaker. Columbia School of Social Work Alumni Conference, New York, NY.
- May 2016 *Gang violence on social media*. Speaker. Quattrone Center. University of Pennsylvania Law School, Philadelphia, PA.
- April 2016 *Innovating gang violence with data science*. Speaker. Data Science Institute, Columbia University, New York, NY.
- April 2016 *Twitter as a tool for undergraduate research on youth violence*. Keynote speaker. Prairie View A&M University, Prairie View, TX.
- March 2016 *Twitter as tool for youth violence prevention*. Keynote speaker. Social Work Month, Harlem Hospital, New York, NY.
- February 2016 *Twitter as a tool for activism*. Presentation and interview. University of Michigan School of Social Work, Ann Arbor, MI.
- December 2015 *Social media, youth and school-based mental health services*. Keynote speaker. Manhattan Borough President's Conference on Mental Health, New York, NY.
- November 2015 *Youth violence on social media*. Speaker. Columbia University Policy Forum for Elected and Appointed Officials, New York, NY.
- October 2015 Panel member. Race, Ethnicity and University Life Panel, Columbia University, New York, NY.
- November 2014 *Digital contagion of youth violence on Twitter*. Oral presentation. Fauri Memorial Conference, School of Social Work, University of Michigan, Ann Arbor, MI.
- October 2014 *Social media and violent behavior*. Oral presentation. Research Center for Group Dynamics, Institute for Social Research, University of Michigan, Ann Arbor, MI.
- May 2014 *Social media and gang violence: Strategies for violence reduction*. Oral presentation. L.A. Gang Violence Prevention and Intervention Conference, Los Angeles, CA.
- March 2014 *Youth violence strategies*. Panel presentation. 27th Annual Minority Health Conference, University of Michigan School of Public Health, Ann

Arbor, MI.

October 2012 *Connected, known and protected: African American adolescent males navigating community violence.* Speaker. First Congregational Church of Glen Ellyn, Glen Ellyn, IL.

FUNDING AWARDED

- 2018-19 **Oculus/ Facebook (Gift)**
Justice, Equity and Technology Lab
Co- Principal Investigator
Direct Costs: \$300,000
- 2018 **Microsoft (Gift)**
VR for Healthy Social Media Use and Bias Training
Principal Investigator
Direct Costs: \$38,000
- 2018 **Collaboratory Fellowship Fund**
Data Science for Social Good- A Collaborative Course for Social Work and Data Science
Principal Investigator
Direct Costs: \$149,000
- 2018 **Institute for Social and Economic Research. Columbia University**
Critical Internet Studies Workshop
Co- Principal Investigator
Principal Investigator: Alondra Nelson
Direct Costs: \$7,860
- 2018 **Columbia University Population Research Center**
Innovating Youth Gang Violence Prevention with Natural Language Processing and Qualitative Analysis
Principal Investigator
Award Amount: \$14,250
- 2017 **Precision Science and Society, Columbia University**
Intervening in Digital Grief with Artificial Intelligence
Principal Investigator
Award Amount: \$7,500
- 2017 **Defense Advanced Research Project Agency (DARPA), United States Department of Defense**
Pathways to Recruitment: Identifying and Comparing Social Indicators and Recruitment in a Chicago Twitter Data Set

Sub-award PI
Principal Investigator: Pedro Szekely, University of Southern California
Award Amount: \$548,000

- 2017 **MAGIC Grant- Brown Institute, Columbia Journalism School**
Beyond the Bullets
Principal Investigator
Award Amount: \$20,000
- 2017 **School of Social Work, University of Connecticut, Dean's Award**
Understanding aggressive social media interactions among youth living in violent neighborhoods
Co- Investigator
Award Amount: \$4,000
- 2017 **InCHIP, University of Connecticut, Junior Faculty Seed Grant**
Understanding aggressive social media interactions among youth living in violent neighborhoods
Co-Investigator
Award Amount: \$7,500
- 2017 **University of Connecticut, Research Excellence Program**
Understanding aggressive social media interactions among youth living in violent neighborhoods
Co-Investigator
Award Amount: \$50,000
- 2016 **National Institute of Child Health and Human Development**
Exposure to Violence and Subsequent Weapons Use: Mediating and Moderating Processes 1R01HD084652-01A1
Principal Investigators: Dubow& Huesmann, University of Michigan
Consultant
Award Amount: \$1,200,000
- 2016 **ROADS Provost Ignition Grant, Data Science Institute, Columbia University**
Natural Language Processing Tools for Gang Violence Prevention
Principal Investigator
Award Amount: \$100,000
Renewed for \$50,000 for 2017-2018
- 2015 **Provost's Grants for Junior Faculty Who Contribute to the Diversity Goals of the University, Columbia University**
Innovating Gang Violence with Data Science and Qualitative Analysis.
Principal Investigator
Award Amount: \$25,000

- 2014 **Loan Repayment Program, National Institute on Minority Health and Health Disparities, National Institutes of Health**
Exploring the Social Media Behaviors of Black Male Gang Members in Chicago: Is Internet Banging a Vector of Fatal and Nonfatal Violence?
Award Amount: \$56,530.09
- 2014 **Michigan Institute for Clinical & Health Research (MICHR), University of Michigan**
Detroit Violence Prevention Partnership (DVPP)
Principal Investigator
Award Amount \$35,000
- 2014 **Office of the Vice President for Research (OVPR), University of Michigan**
Internet Banging
Principal Investigator
Award Amount: \$15,000
- 2014 **Transforming Learning for a Third Century Quick Wins, Office of the Provost, University of Michigan**
A Proposal for Student Engagement in the Create of a Model for Enhancing Preparation for Effective Social Work Services to African American Families
Principal Investigator: Leslie Hollingsworth
Award Amount: \$25,000
- 2012 **Northwestern University**
Lowering Incidence of Violence and Death in Chicago (LIVID)
Co-Principal Investigator
Award Amount: \$1,500

FUNDING APPLICATIONS UNDER REVIEW

- 2018 **National Institute of Child Health and Human Development (NICHD), National Institutes of Health**
Innovating Gang Violence Prevention with Qualitative Analysis and Natural Language Processing
Principal Investigator
Direct Costs: \$1,574,398- **Scored** (July 2017)
Resubmission: July 2018
- 2018 **National Science Foundation (NSF)**
Trustworthy AI Expedition
Principal Investigator: Wing
Direct Costs: 10,000,000

TEACHING EXPERIENCE

- Advocacy (Columbia University)
- Contemporary Social Issues (Columbia University)
- Social Work Practice with Children and Youth (University of Michigan)
- Social Work Practice with Communities and Social Systems (University of Michigan)
- Injury and Public Health (Northwestern University)
- Public School Systems and Service Populations (University of Chicago)

ADVISING

University of Michigan

Adrian Gale (PhD, Committee)

Abigail Williams (PhD, Committee)

Columbia University

Savannah Badalich (Masters, Human Rights, Sponsor)

Miriam McKinney (Masters, Quantitative Methods, Sponsor)

Michelle Silverman (PhD, Teachers College, 2nd Reader)

Laura Vargas (PhD, School of Social Work, Committee)

PROFESSIONAL & UNIVERSITY SERVICE

- 2015 – 2017 **Member**, Advisory Committee, Cure Violence, Chicago, IL.
<http://www.cureviolence.org>
- 2015 – Present **Member**, Advisory Committee, Office of Sponsored Projects, School of Social Work, Columbia University, New York, NY.
- 2015– Present **Member**, Advanced Generalist Practice and Programming Committee, School of Social Work, Columbia University, New York, NY.
- 2016 – present **Member**, Computational Social Science Working Group, Data Science Institute, Columbia University, New York, NY.
<http://datascience.columbia.edu/computational-social-science>
- 2016 – present **Member**, Faculty Search Committee, School of Social Work, Columbia University, New York, NY.
- 2015 – present **Faculty Affiliate**, Data Science Institute, Columbia University, New York, NY. <http://datascience.columbia.edu/>
- 2015 – present **Faculty Affiliate**, Social Intervention Group (SIG), Columbia University, New York, NY. <http://sig.columbia.edu/>

- 2015 – present **Member**, Outcomes Committee, School of Social Work, Columbia University, New York, NY.
- 2015 – 2016 **Member**, Task Force on Race, Diversity, and Inclusion, Office of University Life, Columbia University, New York, NY.
<http://universitylife.columbia.edu/community-citizenship/task-forces>
- 2013 – 2015 **Member**, Student Relations Advisory Committee of the Faculty Senate Assembly, University of Michigan, Ann Arbor, MI.
<https://facultysenate.umich.edu/senate-assembly/committees/student-relations-advisory-committee-srac/>
- 2012 – 2015 **Member**, Multicultural and Gender Affairs Committee, School of Social Work, University of Michigan, Ann Arbor, MI.
- 2012 – 2015 **Faculty Affiliate**, University of Michigan Injury Center, Ann Arbor, MI.
<http://www.injurycenter.umich.edu/>
- 2012 – 2015 **Faculty Affiliate**, Youth Violence Prevention Center, University of Michigan School of Public Health, Ann Arbor, MI.
<http://yvpc.sph.umich.edu/>
- 2012 – 2015 **Faculty Affiliate**, Detroit Urban Research Center, University of Michigan School of Public Health, Ann Arbor, MI. <http://www.detroiturc.org/>

PROFESSIONAL MEMBERSHIPS

Academy of Violence and Abuse
National Association of Social Workers
Society for Research on Adolescence
Society for Social Work and Research

OTHER

Reviewer and Signer for brief to U.S. Supreme Court, Brief for Data & Society Research Institute et al. as Amici Curiae Supporting Petitioner, *Carpenter v. United States*, No. 16-402 (U.S. Aug 11, 2017), 2017 WL 3530957.