

BREANNE CAVE, PHD

Senior Research Associate
Police Foundation
(202) 833-1460; bcave@policefoundation.org

CAREER BRIEF

Dr. Breanne Cave is a Senior Research Associate at the Police Foundation with over five years of experience working on research projects funded by the National Institute of Justice, the Department of Homeland Security, and the National Institutes of Health. Her research focuses on police use of force, public safety, and health in crime hotspots. She has published peer-reviewed research on crime and place, policing, and security. She has a strong interest in quantitative spatial analysis, and has pursued coursework in geography and geoinformation science. While on active duty as a combat engineer officer in the Marine Corps, she worked in intelligence and security roles in support of Operation Iraqi Freedom; as a reservist, she carried out oral history research with History Division, Marine Corps University. Her research interests include policing, evidence-based policy, research translation, place-based research, terrorism and homeland security.

PROFESSIONAL BACKGROUND

2016 – Present

Senior Research Associate

Police Foundation; Washington, DC

2009 –2015 *Graduate Research Assistant*Center for Evidence-Based Crime Policy; Fairfax, VA

2012 – 2015

Field Historian

Oral History Division, Marine Corps University; Quantico, VA

2007 – 2008 Executive Officer Marine Wing Support Squadron 274, US Marine Corps; Arlington, VA

2006 – 2007 Intelligence Officer Marine Wing Support Squadron 271, US Marine Corps; Arlington, VA

2005 – 2006

Project Officer

College of Continuing Education, United States Marine Corps; Arlington, VA

EDUCATION

2016 PhD, Criminology, Law, and Society

George Mason University

Dissertation: Policing places: The influence of street segment context on police behavior. Degree conferral date May 2016.

2014 Graduate certificate, Geography and GeoInformation Science

George Mason University

2009 Master's in Justice Administration

Cum laude

Norwich University

2005 Bachelor's in Criminal Justice

Summa cum laude Norwich University

PEER-REVIEWED PUBLICATIONS

Lum, C., Cave, B., and Nicols, J. (Under review). Are security efforts evidence-based? *Security Journal*.

- Weisburd, D., Groff, E., Jones, G., Cave, B., Amendola, K., and Emison, R. (In Press). The Dallas patrol management experiment: Can AVL technologies be used to harness unallocated patrol time for crime prevention? *Journal of Experimental Criminology*. DOI: 10.1007/s11292-015-9234-y
- Cave, B., Telep, C., and Grieco, J. (2015). Rigorous evaluation research among U.S. police departments: Special cases or a representative sample? *Police Practice and Research: An International Journal*, *16*(3): 254-268. DOI:10.1080/15614263.2014.888348
- Merola, L., Lum, C., Cave, B. and Hibdon, J. (2014). Community support for license plate recognition. *Policing: An International Journal of Police Strategies and Management,* 37(1): 30-51. DOI: 10.1108/PIJPSM-07-2012-0064
- Lum, C., Hibdon, J., Cave, B., Koper, C. S., & Merola, L. (2011). License Plate Reader (LPR) Police patrols in crime hot spots: An experimental evaluation in two adjacent jurisdictions. *Journal of Experimental Criminology, 7*(4): 321-345. DOI: 10.1007/s11292-011-9133-9

BOOK CHAPTERS AND PRACTITIONER ARTICLES

- Weisburd, D., Cave, B., and Piquero, A. (In Press). How do criminologists interpret statistical explanation of crime?: A review of quantitative modeling in published studies. In A. Piquero and C. Wellford (Eds.). *Handbook of criminological theory.*
- Weisburd, D., Eck, J., Braga, A., Telep, C., Cave, B., Bowers, K., Bruinsma, G., Gill, C, Groff, E., Hinkle, J., Hibdon, J., Johnson, S., Lawton, B., Lum, C., Ratcliffe, J. Rengert, G., Taniguchi, T., and Yang, S-M. (In Press). *Place matters: criminology for the 21st century*. New York: Cambridge University Press

- Boruch, R., Weisburd, D.L., Berk, R.A., and Cave, B. (2014). Place-based randomized trials. In D. Weisburd and G. Bruinsma (Eds.). *Encyclopedia of criminology and criminal justice*. New York: Springer Verlaag.
- Cave, B. (2013). Implications of crime and place research for probation and parole.

 Perspectives: The Journal of American Probation and Parole Association, 37(4), 48-53
- Cave, B. (2011). Counterinsurgency and criminology: Applying routine activities theory to military approaches to counterterrorism. In C. Lum & L. Kennedy, (Eds.). *Evidence-based counterterrorism*. Springer-Verlag.
- Lum, C., Gill, C., Cave, B., Hibdon, J., and Weisburd, D. (2011). Translational criminology: The evidence---base for evaluating TSA's Comprehensive Security Strategy at U.S. airports. In C. Lum and L. Kennedy (Eds.), *Evidence-based counterterrorism*. Springer-Verlag.

RESEARCH REPORTS

- Lum, C., Cave, B., and Nichols, J. (2013). An evidence assessment of the Federal Protective Service's security criteria and countermeasures at federal facilities. Fairfax, VA: George Mason University
- Weisburd, D., Groff, E., Jones, G., Amendola, K.L., and Cave, B. (2012). The Dallas AVL experiment: Evaluating the use of automated vehicle locator technologies in policing. Washington, DC: Police Foundation.
- Gill, C., with Lum, C., Cave, B., Dario, L., Telep, C., Vitter, Z. and Weisburd, D. (2012). Evidence-based assessment of the City of Seattle's crime prevention programs. Seattle, WA: City of Seattle Office of City Auditor. http://www.seattle.gov/audit/2012.htm#crimeprevention
- Hibdon, J., Lum, C., Gill, C., Cave, B., Chahal, J., and Vovak, H. (2012). TSA's Comprehensive Strategy to Security at U.S. airports: An analysis of security related incidents at airports. Washington, DC: Department of Homeland Security. NOT FOR PUBLIC DISSEMINATION.
- Lum, C., Gill, C., Cave, B., Hibdon, J., and Weisburd, D. (2011). TSA's Comprehensive Strategy to Security at U.S. Airports: Assessing the evidence-base of the "Playbook". Phase I Final Report. Department of Homeland Security. NOT FOR PUBLIC DISSEMINATION (see Lum et al. above for publicly available chapter).
- Lum, C., Merola, L., Hibdon, J., and Cave, B. (October, 2010). License plate recognition technologies for law enforcement: An outcome and legitimacy evaluation. SPAWAR, National Institute of Justice: Washington, DC.
- Cave, B (2010). Police perceptions of crime places and beat space. Research report for Fairfax County Police Department.

PRESENTATIONS

- Cave, B., Weisburd, D.L., Haviland, A., Lawton, B., and Ready, J. (2015). Mean streets and mental illness. Presented at the American Society of Criminology Conference: Washington, DC.
- Cave, B. (2014). The ecology of policing places: The influence of street segment context on police behavior. Presented at the American Society of Criminology Conference: San Francisco, CA
- Weisburd, D., Ready, J., Lawton, B., Cave, B., Nelson, M., and Haviland, A. (2014). Is living in a hot spot for crime or drugs related to collective efficacy, legitimacy, victimization, deviance, and health problems?: Findings from a survey of street segments in Baltimore, MD. Presented at the American Society of Criminology Conference: San Francisco, CA
- Ready, J., Weisburd, D., Lawton, B., Haviland, A., Cave, B., and Nelson, M. (2014). Systematic social and physical observations at crime hot spots in Baltimore, MD: Methodology and baseline findings. Presented at the American Society of Criminology Conference: San Francisco, CA
- Lawton, B., Weisburd, D., Ready, J., Cave, B., Nelson, M., and Haviland, A. (2014). Response and nonresponse: Contrasting survey response rates across different types of crime hot spots. Presented at the American Society of Criminology Conference: San Francisco, CA.
- Nelson, M., Weisburd, D., Ready, J., Lawton, B., Cave, B., and Haviland, A. (2014). Trials and tribulations of using official data for sampling at micro-geographic units of analysis. Presented at the American Society of Criminology Conference: San Francisco, CA.
- Cave, B. (2014). Preliminary findings on police legitimacy from Baltimore Health and Safety Study. Presented at the SIPR GMU Research Symposium: Tulliallan, Scotland.
- Cave, B (2013) The spatial distribution of high crime and disorder places in Seattle,
 Washington. Presented at the American Society of Criminology Conference: Atlanta,
 GA
- Cave, B. Telep, C., and Grieco, J. (2012). Rigorous evaluation research among U.S. police departments: Special cases or a representative sample? Presented at the American Society of Criminology Conference: Chicago, IL
- Cave, B. (2011). Counterinsurgency and Criminology. Presented at the American Society of Criminology Conference: Washington, DC.
- Cave, B. (2010). The effect of jurisdictional boundaries on police behavior and perceptions of crime in places. Presented at the American Society of Criminology Conference: San Francisco, CA.
- Cave, B. (2010). The effect of jurisdictional boundaries on police behavior and perceptions of crime in places. Presented at the 2010 Stockholm Criminology Conference: Stockholm, Sweden.

CURRENT PROJECTS

Co-Principal Investigator with Charlotte Gill (PI, George Mason University). *Risk awareness, De-escalation, and Referral (RADAR): A subject-specific information sharing approach to increase public safety in first responder crisis management.* Bureau of Justice Statistics.

Research partner. *The Major Cities Chiefs Association/ Police Foundation Officer-Involved Shooting Database.* The Police Foundation.

Research partner. The Hayward Attendance Project. City of Hayward

Principal Investigator. *The effect of a public ridesharing service on crime: A micro-geographic perspective.* Lyft Inc./ The Police Foundation

PRACTITIONER TOOLS DEVELOPED

License Plate Recognition Technology Web Portal
With Cynthia Lum, Linda Merola, and Julie Hibdon
See: http://cebcp.org/lpr/

STATISTICAL AND CODING SKILLS

Software programs and coding languages: ArcGIS, Python, SAS, SPSS, Stata, SQL

Training:

Meta-analysis workshop. Michael Borenstein/Biostat, completed April 2016.

Longtiduinal data analysis using SAS. Statistical Horizons Course, completed April 2016.

Introduction to geoprocessing scripts using Python. ESRI instructor led training course, completed August 21, 2014.

HONORS, AWARDS, AND ACHIEVEMENTS

George Mason University

Presidential Fellowship
Dean's Challenge Award
Criminology, Law, and Society student training award
George Mason University Team Excellence Award (for the Center for Evidence-Based Crime Policy)

Norwich University (graduate)

Distinguished Norwich University Scholar Alumni Scholarship

Norwich University (Undergraduate)

Norwich University Academic Scholarship General I.D. White Scholarship, David & Dixie Hollis Scholarship Community Service Scholarship W.E. Sweester Scholarship

Navy/ Marine Corps ROTC Scholarship Colby Military Writer's Symposium Scholarship

Professional:

Global War on Terrorism Service Medal Iraq Campaign Medal (2) Sea Service Deployment Ribbon (2) National Defense Service Medal Navy and Marine Corps Achievement Medal

PROFESSIONAL ASSOCIATIONS

2014 – Present *Member,* Division of Policing, American Society of Criminology

2009 – Present *Member*, American Society of Criminology