

# Marc L. Swatt, Ph.D.

## Contact Information

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## Employment

May 2012 – Current Senior Research Associate and Statistician. Justice & Security Strategies.

- Serve as lead analyst on several Federally and locally funded projects
- Analyze large datasets with multivariate statistical models
- Write project narratives, research methodology, and statistical analysis sections for federally funded grants
- Develop scope of work and timeline for contracted work
- Prepare reports, peer-reviewed manuscripts, and presentations
- Create instruments for surveys and field studies
- Work with a number of police, prosecutor's offices, and other safety organizations
- Provide consultation for agencies for understanding and interpreting work

Jan 2018 – May 2018 Part Time Faculty. Creighton University.

- Taught 1 section of Undergraduate Statistics

Aug 2009 – May 2012 Assistant Professor. University of Nebraska at Omaha. School of Criminology and Criminal Justice

- Taught 3 sections of undergraduate Statistics
- Taught 2 sections of undergraduate Criminology
- Taught 4 sections of PhD statistics (Stats II and Stats III)
- Taught 1 section of PhD level of Special Topics – Counterfactual Models

Aug 2003 – Aug 2009 Assistant Professor. Northeastern University. College of Criminal Justice

- Taught 4 sections of undergraduate Statistics
- Taught 4 sections of undergraduate Criminology
- Taught 5 sections of undergraduate Research Methods
- Taught 3 sections of MA statistics
- Taught 6 sections of PhD statistics (Multivariate Stats I, II, and Adv. Data Analysis)
- Taught 1 section of PhD/MA level Special Topics – Crime Mapping

## Education

- Ph.D. 2003 University of Nebraska at Omaha – Criminal Justice. Dissertation: “Short-Term Forecasting of Crime for Small Geographic Areas.” Chair: D. Roncek
- M.A. 1999 Kent State University – Criminal Justice Studies
- B.A. 1998 Kent State University – Criminal Justice Studies
- B.A. 1997 University of Delaware – Psychology

## **Software and Statistical Analytic Skills**

- Proficient with MS Office Suite
  - Extensive experience with Word, Excel, and Powerpoint
  - Some experience with Access, Visio, Publisher
- Proficient with SPSS, Stata, SAS, LIMDEP, HLM, MapInfo, and CrimeStat
  - Previously taught courses using all of these programs
- Experience with ArcGIS, Matlab, WinSteps, IRTPRO, R, Splus, Mplus, AMOS, GeoDa, GWR4, G\*Power, CEFA, and Optimal Design
  - Previously used these programs in research projects
- Experience with Blackboard
  - Was used as the main interface for many of the PhD statistics classes
- Experience with many multivariate statistical models (many of which were also taught in PhD-level statistics courses)
  - Univariate and bivariate statistics, OLS models and diagnostic procedures, Nonparametric and robust regression models, GLM and other limited dependent variable models, Sample selection and treatment effects models, Structural equation models, Multilevel models, Time Series analysis, Missing data analysis, Crime mapping and spatial analysis, Propensity score and other counterfactual models, IRT and Classic Test theory scale analysis, Statistical learning/Data mining methods
- Extensive experience working with large, complex datasets in a number of formats
  - Includes: Calls for Service, Police Activity (Report, Arrest, Citation, Field Interrogation), Police Personnel, Prosecution, Probation, Corrections, Parole, Homicide (Coroners Reports, SHR, CDC), ICPSR, Survey, Multiwave Interviews, Systematic Social Observations, GIS/Spatial, Census, and others

## **Selected Projects with Justice & Security Strategies, Inc.**

### *Evaluation of Denver's Crime Gun Information Center (CGIC)*

(Funded by the Bureau of Justice Assistance)

- Lead analyst and statistician
- Analyzed data and wrote final report on CGIC
- Analyzed data and wrote final report on ShotSpotter Evaluation

### *National Prosecutors' Consortium*

(Funded by the Bureau of Justice Assistance)

- Lead analyst and statistician
- Reviewed data and designed statewide analysis
- Created National report
- Designed website

### *Testing and Evaluating Body Worn Video Technology in the LAPD*

(Funded by the National Institute of Justice)

- Lead analyst and statistician
- Assisted with proposal, reports, and manuscripts
- Designed methodology for the experimental design and assisted with survey construction

*Evaluation of the LAPD TEAMS II Early Identification System*  
(Funded by the National Institute of Justice)

- Lead analyst and statistician
  - Designed methodology for Regression-Discontinuity and Time Series sections
- Assisted with proposal preparation, preparing reports, and preparing manuscripts

*Reducing Crime through Collective Efficacy: Identifying Social Control and Social Cohesion in Miami-Dade Neighborhoods*  
(Funded by the National Institute of Justice)

- Lead analyst and statistician
- Assisted with initial proposal, reports, and manuscript
- Book published from final report of this project

*Dating Violence among Latino Adolescents (DAVILA) II*  
(Funded by the National Institute of Justice)

- Subcontracted as Statistical Consultant
  - Multiwave survey data
- Assisted with analysis to support final report

*Latino Intimate Partner Homicide*  
(Funded by the National Institute of Justice)

- Subcontracted as Statistical Consultant
  - Generated multiply imputed datasets from CDC Homicide data
  - Responsible for main analysis
- Assisted with preparing final report

*Smart Policing in Cambridge, Massachusetts: The RAZOR Targeted Deterrence Project*  
(Funded by the Bureau of Justice Assistance – SMART Policing Initiative)

- Lead Analyst and Statistician
  - Randomized experiment examining time to re-offend for treatment and control groups
- Prepared final report on impact of Targeted Deterrence (manuscript is currently in revise and resubmit status at Police Quarterly)

*Evaluation of the LAPD Operation LASER*  
(Funded by the Bureau of Justice Assistance – SMART Policing Initiative)

- Lead analyst and statistician
  - Designed the time series and panel analyses for the evaluation
- Prepared reports, presentations, and manuscripts

*Evaluating Parenting Time Opportunities Program for Children (PTOC) in Miami-Dade*  
(Funded by the Department of Health and Human Services)

- Lead Analyst and Statistician
  - Propensity score matched comparison
- Prepared final report on impact of PTOC

*Los Angeles Fire Department Response Time Study*  
(Funded by the City of Los Angeles)

- Lead analyst and statistician
  - Validated the Palantir open data reports and dashboards
  - Creation of new metric (trimmed mean Operational Response Time)
- Assisted with preparation of reports

*Los Angeles Police Department Response Time Study*  
(Funded by the Los Angeles Police Department)

- Lead analyst and statistician
  - Examined LAPD CAD data and developed reporting metric
  - LAPD has currently implemented metric (based on trimmed mean) department-wide
- Assisted with preparation of reports

## **Selected Publications**

Wooditch, A., C. Uchida, S.E. Solomon, L. Revier, C. Connor, M. Shutinya, J. McCluskey, & **M.L. Swatt**. (2020). Perceptions of body-worn cameras: Findings from a panel survey of two LAPD divisions. *American Journal of Criminal Justice*, 45.

Uchida, C.D., M.L. Swatt, J. Schnobrich-Davis, C. Connor. (2018). A randomized control trial of a targeted high-risk offender program across three jurisdictions. *Police Quarterly*, 22.

Uchida, C.D., **M.L. Swatt**, S.E. Solomon, & S.P. Varano. (2015). *Community, Crime Control, and Collective Efficacy: Neighborhoods and Crime in Miami*. Lanham, MD: Lexington Books.

Uchida, C. D. & **M.L. Swatt**. (2013). Operation LASER and the effectiveness of hotspot patrol: A panel analysis. *Police Quarterly*, 16, 287-304.

Posick, C., A. Farrell, & **M.L. Swatt**. (2013). Do Boys Fight and Girls Cut? A General Strain Theory Approach to Gender and Deviance. *Deviant Behavior*, 34, 685-705.

**Swatt, M.L.**, S.P. Varano, C.D. Uchida, & S.E. Solomon. (2013). Fear of Crime, Incivilities, and Collective Efficacy in Four Miami Neighborhoods. *Journal of Criminal Justice*, 41: 1-11.

Murray, R.K. & **M.L. Swatt**. (2013). Disaggregating the Relationship between Schools and Crime: A Spatial Analysis. *Crime and Delinquency*, 59: 163-190.

Gibson, C., **M.L. Swatt**, J.M. Miller, W.G. Jennings, & A.R. Gover. (2012). The Causal Relationship between Gang Joining and Violent Victimization: A Critical Review and Directions for Future Research. *Journal of Criminal Justice*, 40: 490-501.

Varano, S.P., J.A. Schafer, J.M. Cancino, & **M.L. Swatt**. (2009). Constructing Crime: Neighborhood Characteristics and Police Reporting Behavior. *Journal of Criminal Justice*, 37: 553-563.

Gibson, C., J.M. Miller, W.G. Jennings, **M.L. Swatt**, & A.R. Gover. (2009). Using Propensity Score Matching to Understand the Relationship between Gang Membership and Violent Victimization: A Research Note. *Justice Quarterly*, 26: 625-643.

Buckler, K., **M.L. Swatt**, & P. Salinas. (2009). Public Views of Illegal Immigration Policy: A Test of the Core Hypotheses. *Journal of Criminal Justice*, 37: 317-327.

Swatt, M.L. & R.F. Meier. (2008). Property Crimes. Ch. 12 in E. Goode (Ed.). *Out of Control: Assessing the General Theory of Crime*. Stanford, CA: Stanford University Press.

Fox, J.A. & **M.L. Swatt**. (2008). Multiple Imputation of the Supplementary Homicide Reports, 1976-2005. *Journal of Quantitative Criminology*, 25: 51-77.

**Swatt, M.L.**, C.L. Gibson, & N.L. Piquero. (2007). Exploring the Utility of General Strain Theory in Explaining Problematic Alcohol Consumption by Police Officers. *Journal of Criminal Justice*, 35: 596-611.

Beaver, K.M., J.P. Wright, M. DeLisi, L.E. Daigle, **M.L. Swatt**, & C.L. Gibson. (2007). Evidence of a Gene X Environment Interaction in the Creation of Victimization. *International Journal of Offender Therapy and Comparative Criminology*, 51: 620-645.

Roncek, D.W. & **M.L. Swatt**. (2006). For Those Who Like Odds: A Direct Interpretation of the Logit Coefficient for Continuous Variables. *Social Science Quarterly*, 87, 731-738.

**Swatt, M.L.** & N. He. (2006). Exploring the Difference between Male and Female Intimate Partner Homicides: Revisiting the Concept of Situated Transactions. *Homicide Studies*, 10, 1-14.