

CURRICULUM VITAE  
KATHRYN WUSCHKE

October 2017

Assistant Professor  
Criminology and Criminal Justice  
Portland State University  
570J Urban Center Building  
503-725-8002

**EDUCATION:**

2016 Ph.D. (Criminology), Simon Fraser University

**Dissertation Title:** Planning for Crime: Exploring the Connections between Urban Space, Development and Patterns of Crime

2008 M.A. (Geography), Simon Fraser University

2005 B.A. (Geography), University of Saskatchewan

**PUBLICATIONS:**

**Refereed Journal Articles:**

Vaughan, A.D., Wuschke, K.E., Hewitt, A.N., Hodgkinson, T., Andresen, M.A., Brantingham, P.L. & Verdun-Jones, S. (2017). Variations in Mental Health Act calls to police: An analysis of hourly and intra-week patterns. *Policing: An International Journal of Police Strategies & Management*, in press.

Wuschke, K., Clare, J., and Garis, L. (2013). Temporal and geographic clustering of residential structure fires: A theoretical platform for targeted fire prevention. *Fire Safety Journal*, 62(A), 3-12.

Dabbaghian, V., Jackson, P., Spicer, V., and Wuschke, K. (2010). A Cellular Automata Model on Residential Migration in Response to Neighbourhood Social Dynamics. *Mathematical and Computer Modelling*, 52(9-10), 1752-1762.

Andresen, M.A., Wuschke, K., Kinney, J.B., Brantingham, P.J., and Brantingham, P.L. (2009). Cartograms, Crime and Location Quotients. *Crime Patterns and Analysis* 2(1), 31-46.

Kinney, J.B., Brantingham, P.L., Wuschke, K., Kirk, M.G., and Brantingham, P.J. (2008). Crime attractors, generators and detractors: Land use and urban crime opportunities. *Built Environment* 34(1), 62-74.

**Refereed Conference Publications:**

Jackson, P., Reid, A., Huitson, N., Wuschke, K., and Dabbaghian, V. (2012). Drinking with friends: A cellular automata approach to modeling peer influence on binge drinking behavior. *Proceedings of CAMUSS*, Oporto, Portugal.

Frank, R., Park, A.J., Brantingham, P.L., Clare, J., Wuschke, K., and Vajihollahi, M. (2010). Identifying High Risk Crime Areas using Topology. *Intelligence and Security Informatics (ISI), 2010 IEEE International Conference*, Vancouver BC, Canada, 13-18.

#### **Contributions to Edited Volumes:**

Wuschke, K. and Kinney, J.B. (2017). Built Environment, Land Use and Crime. In G. Bruinsma and S. Johnson (Eds.), *Oxford University Press Handbook of Environmental Criminology* (pp.479 – 500). Oxford, UK: Oxford University Press, in press.

Andresen, M.A, and Wuschke, K. (2018). Geography and crime science. In R. Wortley, A. Sidebottom, G. Laycock and N. Tilley (Eds.), *Routledge Handbook of Crime Science*. New York, NY: Routledge, in press.

LeBeau, J., and Wuschke, K. (2014). Basics of Cartography. In B. Hill and R. Paynich (Eds.), *Fundamentals of Crime Mapping*, 2nd Ed. Burlington, MA: Jones & Bartlett.

Brantingham, P.L., Wuschke, K., Frank, R., and Brantingham, P.J. (2012). Crime Emergence and Simulation Modeling: Modeling Crime Space. In J. McGloin, C. Sullivan and L. Kennedy (Eds.), *When Crime Appears: The Role of Emergence*. London: Routledge.

Brantingham, P.L., Brantingham, P.J., Vajihollahi, M., and Wuschke, K. (2009). A topological technique for crime analysis at multiple scales of aggregation. In D. Weisburd, W. Bernasco and G. Bruinsma (Eds.), *Putting crime in its place: Units of analysis in spatial crime research*. London: Springer-Verlag, 87-107.

#### **Research Monographs:**

Clare, J. and Wuschke, K. (2012). *Towards developing a Canadian national law enforcement strategy to combat gun crime and illicit firearms trafficking by examining best practices: research paper*. Public Safety and Emergency Preparedness Canada: Ottawa, ON.

Wuschke, K. (2011). *uMetro Model Overview: A Method for Estimating Coquitlam Detachment Public Safety and Public Order Needs*. Coquitlam, BC, Canada: Coquitlam RCMP Detachment.

#### **Other Conference Publications:**

Spicer, V., Ginther, J., and Wuschke, K. (2011). Patterns of perception: Forecasting the perception of crime. In *ICA Commission on Geospatial Analysis and Modeling and ISPRS WG IV/5 on Pervasive Web Mapping, Geoprocessing and Services Workshop*, Burnaby, BC, Canada.

Wuschke, K., Brantingham, P.L., and Ginther, J. (2009). Landscapes of Crime: Exploring Urban Crime and Land Use. In K. Hastings (Ed.) *Conference Proceedings of the GeoTec Event 2009*. Vancouver, BC, Canada.

#### **FELLOWSHIPS AND AWARDS:**

2017 Portland State University, Faculty Enhancement Grant

2012 Simon Fraser University, President's Research Stipend

2011 Simon Fraser University - Graduate Fellowship

2009 Social Sciences and Humanities Research Council of Canada (SSHRC), SSHRC Doctoral Fellowship

- 2009 Simon Fraser University, Modelling of Complex Social Systems (MoCSSy) Graduate Research Fellowship – Summer Award
- 2009 Simon Fraser University, Modelling of Complex Social Systems (MoCSSy) Graduate Research Fellowship – Spring Award
- 2009 Simon Fraser University, Graduate Fellowship
- 2006 Social Sciences and Humanities Research Council of Canada (SSHRC), Canadian Graduate Scholarship - Masters
- 2006 Simon Fraser University, Graduate Fellowship
- 2005 Simon Fraser University, Special Graduate Entrance Scholarship

**CONFERENCE PARTICIPATION:**

**Sessions Organized:**

- 2015 Geographies of Crime I, II, III, Canadian Association of Geographers, 64th Annual Meeting, Vancouver, Canada.

**Invited Presentations:**

- 2017 Wuschke, K. Considering the Impact of Crime Maps on Public Perceptions of Safety. School of the Environment Fall Speaker Series: Emerging Tools for Investigating Natural and Social Systems. Portland State University, Portland, OR, October 2017.
- 2016 Wuschke, K. Mapping Made Easy with Google. Oregon Problem Oriented Policing Conference, Salem, OR, November 2016.
- 2008 Wuschke, K. Activity Paths and Nodes: Investigating the Relationship between Public Awareness Spaces and Crime. Modelling of Complex Social Systems Computational Criminology Symposium, Burnaby, BC, Canada, November 2008.

**Conference Presentations:**

- 2016 Wuschke, K., Song, J., and Spicer, V. Crime in the Built Environment: Exploring the Impact of Road Networks and Land Use on Residential Burglary Patterns. Poster presented at the American Society of Criminology Conference, New Orleans, November 2016.
- 2016 Vaughan, A.D., Wuschke, K.E., Hewitt, A.N., Hodgkinson, T., Andresen, M.A., Brantingham, P.L. & Verdun-Jones, S. (2017). Variations in Mental Health Act calls to police: An analysis of hourly and intra-week patterns. Poster presented at the American Society of Criminology Conference, New Orleans, November 2016.
- 2016 Wuschke, K. Crime and the Built Environment: Exploring the Connections between Crime and Land Use in the Suburbs. Environmental Criminology and Crime Analysis Conference, Munster, Germany, June 2016.
- 2016 Wuschke, K. Beyond the Hotspot: Exploring the impact of land use and transportation networks on the spatial crime distribution. Western Society of Criminology Annual Meeting, Vancouver, February 2016.

- 2015 Wuschke, K. Urban Crime Clusters: Exploring the impact of land use, activity nodes and pathways on the spatial crime distribution. Canadian Association of Geographers, 64<sup>th</sup> Annual Meeting, Vancouver, June 2015.
- 2013 Wuschke, K. Exploring local relationships: Considering the impact of land use, activity nodes and pathways on the distribution of urban crime. Environmental Criminology and Crime Analysis Conference, Philadelphia, June 2013.
- 2012 Wuschke, K., and Brantingham, P.L. Planning for crime: Incorporating land use and transportation concepts into crime modelling. Environmental Criminology and Crime Analysis Conference, Stavern, Norway, June 2012.
- 2011 Reid, A., Wuschke, K., Mu, S., Ghaseminejad, A., Richter, W., and Brantingham, P.J. Spatial-Temporal Patterns in Judicial Case Processing. American Society of Criminology Conference, Washington, November 2011.
- 2010 Wuschke, K., Huitson, N., Clare, J., Brantingham, P.L., and Young, F. Modeling the Mental Health Act: Exploring the use of the Mental Health Act across Police Detachments in British Columbia. American Society of Criminology Conference, San Francisco, CA, USA, November 2010.
- 2010 Wuschke, K., Huitson, N., and Brantingham, P.L. Accessing the Mental Health Act: A Spatial Exploration of the Use of the Act in Police Records in British Columbia. Environmental Criminology and Crime Analysis Conference, Brisbane, Australia, July 2010.
- 2009 Wuschke, K., and Brantingham, P.J. Measuring the intensity of Crime in Small Areas of a City. American Society of Criminology Conference, Philadelphia, PA, USA, November 2009.
- 2009 Dabaghian, V., Jackson, P., Wuschke, K., Ginther, J., and Spicer, V. A Mathematical Model of Neighbourhood Migration and Crime. American Society of Criminology Conference, Philadelphia, PA, USA, November 2009.
- 2009 Wuschke, K., and Brantingham, P.L. Complete Communities: Exploring the Relationship between Land Use and Crime in a Dynamic Urban Environment. Canadian Association of Geographers Annual Meeting, Ottawa, ON, Canada, May 2009.
- 2009 Wuschke, K., Brantingham, P.L., and Ginther, J. Landscapes of Crime: Exploring Urban Crime and Land Use. GeoTec, Vancouver, BC, Canada, April 2009.
- 2009 Wuschke, K., Brantingham, P.L., and Ginther, J. Modeling Crime within a Dynamic Urban Environment. Western Society of Criminology Conference, San Diego, CA, USA, February 2009.
- 2008 Wuschke, K. Awareness Paths and Activity Nodes: Investigating the Relationship between Public Awareness Spaces and the Distribution of Criminal Activity. Temple University Graduate Student Symposium in Criminal Justice, Philadelphia, PA, USA, May 2008.
- 2008 Brantingham, P.J., Brantingham, P.L., Kinney, J.B., Andresen, M., Wuschke, K. and Ginther, J. Cartograms of Crime: Hotspots, Cartograms and Visualization Techniques in GIS. Western Society of Criminology Conference, Sacramento, CA, USA, February 2008.
- 2007 Brantingham, P.L., Brantingham, P.J., Kinney, J.B., Wuschke, K. and Kirk, M. Land Use and Crime. Environmental Criminology and Crime Analysis Conference, London, UK, July 2007.

- 2007 Wuschke, K., Schuurman, N., and Brantingham, P.L. Sentinel conditions: a method of predicting criminal activity based on socio-economic indicators. Canadian Association of Geographers Conference, Saskatoon, SK, Canada, May 2007.
- 2007 Wuschke, K., Schuurman, N., and Brantingham, P.L. Sentinel conditions: mapping crime through socio-economic proxies. Association of American Geographers Annual Meeting, San Francisco, CA, USA, April 2007.
- 2006 Ji, J., Bell, S., Wuschke, K., Wells, C. and Blair, T. Neighborhood Level Analysis of Admission to Cardiology in Saskatoon, Saskatchewan. Prairie Division, Canadian Association of Geographers Conference, Winnipeg, MB, Canada, September 2006.
- 2006 Wuschke, K., Bell, S., Wells, C., Blair, T., McBain, L., and Pylypchuk, G. Regional and Neighbourhood Variation in Cardiology Care in Saskatchewan, Canada. Association of American Geographers Annual Meeting, Chicago, March 2006.

**TEACHING EXPERIENCE:**

**Instructor:**

**Crime Analysis (CCJ 340):** Department of Criminology and Criminal Justice, Portland State University (2016: Fall; 2017: Winter, Spring, Fall)

**Crime Prevention Through Urban Design (CCJ 410: Top):** Department of Criminology and Criminal Justice, Portland State University (2017: Spring)

**Environmental Criminology (CCJ 410: Top):** Department of Criminology and Criminal Justice, Portland State University (2017: Winter, Summer, Fall)

**Introduction to Criminology and Criminal Justice (CCJ 300):** Department of Criminology and Criminal Justice, Portland State University (2016: Fall)

**Environmental Criminology: Theory and Practice (Crim 352):** School of Criminology, Simon Fraser University (2015: Fall, Spring; 2013: Spring)

**Crime and Criminal Intelligence Analysis (Crim 457):** School of Criminology, Simon Fraser University (2014: Fall)

**Crime and Criminal Intelligence Analysis - Substitute.** Department of Criminology, Douglas College (2014: Fall)

**RESEARCH EXPERIENCE:**

2016-Present International Member, Institute for Canadian Research Studies (ICURS), Simon Fraser University

2007-2016 Assistant Laboratory Director, Institute for Canadian Urban Research Studies (ICURS) Laboratory, Simon Fraser University

2005-2016 Research Assistant, Institute for Canadian Urban Research Studies (ICURS), Simon Fraser University

2009-2013 Research Assistant for Professor Neil Boyd, School of Criminology, Simon Fraser University

- 2007-2009 Geographic Information Science Research Assistant, Urban Studies Program, Simon Fraser University
- 2005 Geographic Information Science Research Assistant: Institute for Health Research and Education (IHRE), Simon Fraser University

**Research Fields:**

Spatial Crime Analysis  
Geographic Information Science  
Environmental Criminology

**SERVICE TO PROFESSION:**

**Journal Referee:**

- 2017 *Canadian Journal of Criminology*
- 2017 *Policing: An International Journal of Police Strategies & Management*
- 2017 *Canadian Geographer*
- 2017 *Journal of Research in Crime and Delinquency*
- 2017 *Criminal Justice and Behavior*
- 2017 *Professional Geographer*
- 2016 *Journal of Research in Crime and Delinquency*
- 2016 *Justice Quarterly*
- 2014 *Australian and New Zealand Journal of Criminology*
- 2013 *Journal of Scientific Research and Reports*

**Book Chapter Referee:**

- 2012 Springer

**DEPARTMENTAL AND UNIVERSITY SERVICE:**

- 2016-2017 Department of Criminology and Criminal Justice, PSU: Graduate Programs Committee
- 2017 Department of Criminology and Criminal Justice, PSU: CCJO Subcommittee
- 2014-2016 School of Criminology, SFU: Graduate Programs Committee - Ph.D. Alternate
- 2010-2012 School of Criminology, SFU: Graduate Programs Committee – Ph.D. Representative
- 2008 School of Criminology, SFU: Graduate Student Society –Graduate Representative
- 2007 Department of Geography, SFU: Graduate Representative, Student Forum

**MEMBERSHIPS AND AFFILIATIONS:**

- 2008-2018 American Society of Criminology
- 2008-2017 Western Society of Criminology
- 2006-2016 Canadian Association of Geographers

2005-2007 American Association of Geographers

2008-2012 Member, Modelling of Complex Social Systems program, Simon Fraser University