

# Christopher R. Herrmann

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## PROFESSIONAL PROFILE

Strong career interests in Crime Mapping, Spatial Analysis of Crime, related quantitative research, and policy analysis. Experienced in quantitative and qualitative research including problem oriented policing, crime prevention, gang/drug control & enforcement, GIS/Remote Sensing projects, ethnographic studies, and computer guided research. Current academic interests include design, implementation, and study of the relationship between the environment (place) and crime using Geographical Information Science (GISc), quantitative studies, and related spatial analysis.

## EDUCATION

### Graduate Center, City University of New York

- **PhD. Program - Criminal Justice**, expected graduation June 2010
- Specializations: Crime Analysis, Geographical Information Science, Juvenile Delinquency, Criminology

### Lehman College, City University of New York

- **Advanced Graduate Certificate: Geographical Information Science, June 2005**

### John Jay College of Criminal Justice, New York, N.Y.

- **M.A. Criminal Justice, January 2000**
- Specialization: Criminal Law & Criminal Procedure

### John Jay College of Criminal Justice, New York, N.Y.

- **B.S. Fire Science, June 1997**

## WORK EXPERIENCE

### Criminal Justice Research and Evaluation Center, CUNY John Jay College of Criminal Justice

- **Spatial Analyst (October, 2008 - August, 2009)**
- Development and maintenance of geospatial database for New York City Department of Juvenile Justice
- Statistical and Spatial Analysis of Juveniles admitted to Department of Juvenile Justice
- Created Neighborhood & Community District Maps for Juvenile Justice Mental Health Service providers

### Hempstead Police Department

- **Crime Analyst (Supervisor) (2006 - )**
- Development and maintenance of Crime Analysis Operations for Village of Hempstead (NY)
- Statistical and Spatial Analysis of Crime, Auto Accidents, and Gang Networks
- Various Gang & Drug Prevention and Enforcement initiatives (Ceasefire, Drug Market Initiative)

### Center for Crime Prevention & Control @ John Jay College of Criminal Justice

- **Research Analyst – Operation Ceasefire (Nassau County) (2006 - )**
- Statistical, Spatial, & Network Analysis of Gangs throughout Nassau County
- Conducted Gang Member audits and Gang Turf audits with various agencies throughout Nassau County
- Assisted in development, data collection, analysis, and presentation of Ceasefire methodology

### New York City Police Department (NYPD)

- **Crime Analysis (Supervisor), Office of Management Analysis & Planning, (2005 – 2008)**
- Spatial Analysis of Crime throughout the New York City Metro area.
- Statistical and Spatial Analysis of Shootings & Homicides throughout New York City.
- Create, Collect, Organize, Distribute computer geodatabase files.
- Develop spatial models to forecast future criminal events, high density areas, and department resource allocation.

### City University of New York - John Jay College of Criminal Justice

- **Adjunct Professor: Sociology Department, Law & Police Science Department (2003 – present)**
- Crime Mapping: Fall (2004, 2005, 2008)
- Juvenile Delinquency: Fall (2003, 2004, 2009) Spring (2004, 2005, 2009)
- Criminology: (Spring 2004, 2009; Fall 2007, 2008)
- Introduction to Criminal Justice: (Spring 2005)

## New York State Office of Alcoholism and Substance Abuse Services (OASAS)

- **Research Scientist, (2000 – 2002)**
- Conduct Ethnographic research throughout the Mid-Hudson Valley Region
- Interviewed recent admissions to Inpatient and Outpatient Drug Treatment Programs
- Interviewed recent admissions to New York State Prisons

## COMPUTER SKILLS

Windows/Mac Operating Systems, Microsoft Office, Photo/Video Editing Software, Internet, SPSS, Ethnograph, Acrobat, Photoshop Elements, Several GIS packages - MapInfo, ESRI ArcView 3.x, ArcGIS 8.x & 9.x, ArcPad, ERDAS Imagine, Leica Geospatial Remote Sensing Suite, Macromedia Dreamweaver MX, Microsoft Frontpage 2003, BlackBoard 6. Familiar with a variety of Computer Hardware, including assembly, installation, and repair of most IBM and MAC systems in both stand-alone and network environments.

**Graduate Level GIS Classes Completed:** Advanced Mapping Applications and Analysis, Computer Mapping for LA & NY, Principles of Geographic Information Science, Special Projects in GISc, Graduate Workshops in GISc, Remote Sensing, Advanced Spatial Data Analysis (ESRI). Intermediate & Advanced MapInfo Professional Certificates.

**Certifications / Licenses:** Certified Geographical Profiling Analyst (ECRI), March 2007

## CONFERENCE PRESENTATIONS

*Effective Gang Control – Operation Ceasefire: Nassau County, New York*

Paper presented, 10<sup>th</sup> Annual NIJ Crime Mapping Conference. New Orleans, LA. August 16-22.

*Data Driven Approaches to Crime & Traffic Safety: Crime Mapping and Deployment Strategies*

Guest Speaker, Region 8 Meeting of the U.S. Department of Transportation. Lakewood, CO. May 26- 28, 2009.

*Guns and crime: Mapping patterns and preventing violence*

Paper presented, 2008 NIJ Conference, Arlington, VA. July 21-23, 2008

*Crime Analysis and Geographical Profiling*

Presentation, *Academy of Urban Planning (Brooklyn)*, March 26, 2007

Advances in the Criminal Justice field, educational possibilities, & career opportunities.

*NYC ArcUSER Conference (New York): Crime Pattern Analysis using GIS*

Paper presented, 2007 Annual NYC ArcUSER Conference. New York, NY.

*Perfecting the Denominator: The Future of Dasyetric Mapping for Criminal Justice*

Paper presented, 9<sup>th</sup> Annual NIJ Crime Mapping Conference. Pittsburgh, PA. March 28 - 31, 2007.

*Subcultural Norms and the Construction of a Street Drug Selling Activity Index*

Paper presented, *Society for the Study of Social Problems*. Chicago, August 14-18, 2002.

R. Terry Furst, John Jay College of Criminal Justice (CUNY), Christopher Herrmann, MA, John Jay College of Criminal Justice (CUNY), Ray Leung, Hunts Point Multi-Service Inc, John Galea, New York State Office of Substance Abuse Services (OASAS), and Kirsten Hunt, Columbia University □

*Drug Abuse Patterns in Mid-Size Cities and Small Towns in the Mid-Hudson Region of New York*

Paper presented, *Society for the Study of Social Problems*. Anaheim, August 17-19, 2001.

R. Terry Furst, Ph.D., John Jay College of Criminal Justice (CUNY), Christopher Herrmann, MA, John Jay College of Criminal Justice (CUNY), Ray Leung, Hunts Point Multi-Service Inc, New York, and Kirsten Hunt □

*Physical Characteristics of Drug Arrest Hot Spots in New York City*

*Academy of Criminal Justice Sciences Conference, 2000*

by Mangai Natarajan, Gilda Azurdia, Melony Bedford, Christopher Herrmann, Victoria Lembersky, Maria Piri, Leslie Reichert, Beth Shidler, Kyle Trevilian, Neeshan Tulshi, & Alan Weidenfeld

## ACTIVITIES & ASSOCIATIONS

- Interuniversity Consortium for Political and Social Research, University of Michigan, Program Scholar
- American Society of Criminology, Member
- Academy of Criminal Justice Sciences, Member

- NIJ Crime Mapping Listserv, Member
- ECRI Geographical Profiling Listserv, Member
- New York City Geographical Information Systems Users Group (GISMO), Member
- Delta Ministries: Short-Term Missions, Team Leader

## PUBLICATIONS

***Mapping Population Distribution in the Urban Environment: The Cadastral-based Expert Dasymetric System (CEDs)***, 2007 US National Report to the International Cartographic Association, Cartography and Geographic Information Science, Vol. 34, No. 2, 2007, pp. 77-102

***Mapping Auto Theft in the Bronx***

Book Chapter in *Space, Time, & Crime* (Lersch, Carolina Academic Press, 2007)

***Crime Pattern Analysis: Exploring Bronx Auto Theft using GIS***

Book Chapter in 'GIS for the Urban Environment' (Maantay, ESRI Press, 2007)

***A Case Study of Heroin Addiction and Geographic Location***

Street Drugs: New Research, Nova Publishers

***Diffusion of Heroin in Small and Mid-Sized Cities in New York State***

Journal of Addiction, Volume 99, Issue 4 (April, 2004)

By R. Terry Furst, Christopher Herrmann, Ray Leung, John Galea, and Kirsten Hunt.

***Advanced Criminology: Using GIS to teach Graduate Students Environmental Criminology Theory (pending)***

By Mangai Natarajan & Christopher Herrmann

***Location, Location, Location: The Impact of Environmental Variables on Drug Markets- Brooklyn, NY (pending)***

By Mangai Natarajan & Christopher Herrmann