

MIRUNA PETRESCU-PRAHOVA

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EDUCATION

2008 Ph.D. in Sociology (expected July), Department of Sociology, University of California, Irvine
Dissertation: "Discrete Exponential Family Models for the Study of Ethnic Residential Segregation"
2004 M.A. in Sociology, Department of Sociology, University of California, Irvine
Thesis: "Friendship among Graduate Students: A Social Network Approach"
2002 M.A. in European Social Policy, University of Bucharest, Romania
2000 B.A. in Social Work and Orthodox Theology, University of Bucharest, Romania

RESEARCH INTERESTS

Social Networks/Ethnic Residential Segregation/International Migration/Spatial Demography/Organizational Coordination in Disaster Response/ Disability and Carework

Social Network Analysis/Statistics/Spatial Analysis

PUBLICATIONS

Benjamin Lind, Carter T. Butts, Miruna Petrescu-Prahova and Miguel Tirado. 2008. "Brokerage Roles in Disaster Response: Organizational Mediation in the Wake of Hurricane Katrina". Forthcoming in the *International Journal of Emergency Management*

Katherine Faust and Miruna Petrescu-Prahova. 2007. Comment on Mark S. Handcock, Adrian E. Raftery, and Jeremy M. Tantrum. "Model-based clustering for social networks". *Journal of the Royal Statistical Society A* 170:336-337

Miruna Petrescu-Prahova. 2007. "Discrete Exponential Family Models for the Study of Ethnic Residential Segregation". In Adrian Bejan (ed.), *Constructal Theory of Social Dynamics*, Springer

Carter T. Butts, Miruna Petrescu-Prahova and B. Remy Cross. 2007. "Responder Communication Networks in the World Trade Center Disaster: Implications for Modeling of Communication Within Emergency Settings". *Journal of Mathematical Sociology* 31:121-147,

Philip N. Cohen and Miruna Petrescu-Prahova. 2006. "Gendered Living Arrangements Among Children with Disabilities: Evidence from the 2000 Census." *Journal of Marriage and the Family* 68: 630-638

UNDER REVIEW

Miruna Petrescu-Prahova and Carter T. Butts. "Emergent Coordinators in the World Trade Center Disaster". Revise and resubmit, *International Journal of Mass Emergencies and Disasters*

TECHNICAL REPORTS

Butts, Carter T. and Petrescu-Prahova, Miruna. (2005). "Radio Communication Networks in the World Trade Center Disaster." IMBS Technical Report MBS 05-04, University of California, Irvine.

Butts, Carter T.; Petrescu-Prahova, Miruna; and Cross, Remy. (2005). "Responder Communication Networks in the WTC Disaster: IT Implications." RESCUE Research Highlights Volume, University of California, Irvine.

Petrescu-Prahova, Miruna and Butts, Carter T. (2005). "Emergent Coordination in the World Trade Center Disaster." IMBS Technical Report MBS 05-03, University of California, Irvine.

WORK IN PROGRESS

Miruna Petrescu-Prahova. "Bridging Simulation and Inference Methods in the Study of Residential Segregation: A Case Study"

Miruna Petrescu-Prahova. "A Network Analysis of Global International Migration"

Miruna Petrescu-Prahova, Carter T. Butts, Christine A. Bevc, Kathleen Tierney. "Brokerage in Emergent Multiorganizational Networks During Disaster Response"

Miruna Petrescu-Prahova and Carter T. Butts. "Network Inference with Missing Data: a Performance Comparison of Existing Methods"

INVITED TALKS

Miruna Petrescu-Prahova. "Discrete Exponential Family Models for the Study of Ethnic Residential Segregation". Constructal Theory of Social Dynamics Workshop, Duke University, April 4-5, 2006

AWARDS AND FELLOWSHIPS

2007 UC Regents' Dissertation Fellowship

2006 Summer Research Funding from the School of Social Sciences, University of California Irvine

2006 Participant, GIS and Population Science Workshop, Center for Spatially Integrated Social Science, University of California, Santa Barbara, July 10-21

2005 Best Paper Award for "Emergency Phase Networks During the World Trade Center Disaster" (with Carter T. Butts and Remy Cross), Third Joint US-Japan Conference on Mathematical Sociology, Sapporo, Japan

2005 Summer Research Funding from the School of Social Sciences, University of California Irvine

2004 Summer Research Funding from the School of Social Sciences, University of

California Irvine

2004 A. Kimball Romney Outstanding Graduate Student Paper Award, School of Social Sciences, University of California Irvine

2003 P.E.O. International Peace Scholarship

2002-2006 Social Science Merit Award, School of Social Sciences, University of California Irvine

PRESENTATIONS

Miruna Petrescu-Prahova. "A Network Analysis of Global International Migration". 28th Sunbelt Network Conference (INSNA), St. Petersburg, FL, 2008

Miruna Petrescu-Prahova. "Bridging simulation and inference methods in the study of residential segregation: a case study". Accepted at the Population Association of America Annual Meetings, New Orleans, LA, 2008

Miruna Petrescu-Prahova, Carter T. Butts, Christine A. Bevc, Kathleen Tierney. "Brokerage in Emergent Multiorganizational Networks During Disaster Response". 27th Sunbelt Network Conference (INSNA), Corfu, Greece, 2007

Miruna Petrescu-Prahova. "Ethnic Preferences and Residential Segregation: A Simulation Study". Population Association of America Annual Meetings, New York, NY, 2007

Miruna Petrescu-Prahova and Carter T. Butts. "Emergent Coordinators in the World Trade Center Disaster". American Sociological Association Annual Meetings, Montreal, QC, 2006

Miruna Petrescu-Prahova. "Modeling Ethnic Residential Segregation in Urban Environments". Conference on Spatial Demography, Center for Spatially Integrated Social Science, University of California, Santa Barbara, CA, 2006

Miruna Petrescu-Prahova and Carter T. Butts. "Network Inference with Missing Data: a Performance Comparison of Existing Methods". 26th Sunbelt Network Conference (INSNA), Vancouver, BC, 2006

Philip N. Cohen and Miruna Petrescu-Prahova. "Gendered Living Arrangements Among Children with Disabilities: Evidence from the 2000 Census." American Sociological Association Annual Meetings, Philadelphia, PA, 2005

Carter T. Butts and Miruna Petrescu-Prahova. "Radio Communication Networks in the World Trade Center Disaster". American Sociological Association Annual Meetings, Philadelphia, PA, 2005

Miruna Petrescu-Prahova. "Estimating Network Structure and Actor Level Indices in the Case of Missing Data." Third US-Japan Joint Conference on Mathematical Sociology, Sapporo, Japan, 2005.

Miruna Petrescu-Prahova. "Friendship Among Graduate Students: A Social Network Approach". 25th Sunbelt Network Conference (INSNA), Redondo Beach, CA. 2005

Carter T. Butts, Miruna Petrescu-Prahova, and B. Remy Cross. "Responder Communication Networks During the World Trade Center Disaster." 25th Sunbelt Network Conference (INSNA), Redondo Beach, CA. 2005

Miruna Petrescu-Prahova, Jeanne A. Batalova. "Sharing Social Space: Social Embeddedness of Economic Actions in a Certified Farmer's Market". American Sociological Association Annual Meetings, San Francisco, CA, 2004

Philip N. Cohen, Miruna Petrescu-Prahova. "Care Work, Gender Inequality and the State: Children with Disabilities and the Division of Paid Work in Couples". Population Association of America Annual Meetings, Boston, MA, 2004

WORK EXPERIENCE

Research Assistant, 4/2004 - present, Project RESCUE – Responding to Crises and Unexpected Events, California Institute for Telecommunications and Information Technology, University of California, Irvine

Teaching Assistant, 9/2002-12/2003, 9/2007-present, Department of Sociology, University of California, Irvine. Courses: Population, Social Stratification, International Sociology, Business Decisions, Probability and Statistics for the Social Sciences

TRAINING

2007 Getting Started with SAS 9.1.3 Statistical Software, UCI Center for Statistical Consulting, August 27-31

2007 NETHUR School “Research on Neighborhood Effects”, OTB Research Institute for Housing, Urban and Mobility Studies, Delft University of Technology, May 15-16

2006 GIS and Population Science Workshop, Center for Spatially Integrated Social Science, University of California, Santa Barbara, July 10-21

REVIEWER

Social Networks

Journal of Social and Personal Relationships

PROFESSIONAL MEMBERSHIPS

American Sociological Association

International Network for Social Network Analysis

International Sociological Association (RC21 - Sociology of Urban and Regional Development; RC33 – Logic and Methodology in Sociology)

Population Association of America

LANGUAGES

Romanian – Native speaker

English – Proficient

French – Intermediate

German – Beginner

REFERENCES

Carter T. Butts, *Dissertation Committee Chair*

Associate Professor

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