

Andrew B. Trgovac

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EDUCATION

- Fall 2013 **Ph.D. in Geography**
Dissertation: *Spatial and Temporal Patterns of Species Abundance Distributions in the Forests of the Eastern United States*
The State University of New York at Buffalo, Buffalo, NY
Committee: Dr. Chris P.S. Larsen (Advisor), Jared Aldstadt, Scott Mackay
- 1997 **Certificate in Curriculum and Instruction**
Certified in Biology and Environmental Science
The Pennsylvania State University, University Park, PA
- 1994 **BSc. in Ecology**
Program of Emphasis Core Courses: Biogeography, Field Ecology, Plant Systematics and Ecology
Juniata College, Huntington, PA

RESEARCH INTERESTS

- Applied use of rank abundance distributions
- Reconstruction and analysis of presettlement vegetation
- Effects of taxonomic aggregation on statistical analysis
- Spatial analysis of natural resource and health data

FELLOWSHIP & AWARDS

- 2006-2011 **NSF IGERT in GIScience Fellow- P.I.: Dr. David Mark, University at Buffalo**
Doctoral fellowship granted by the National Science Foundation's Integrative Graduate Research and Education Traineeship (IGERT) for the interdisciplinary training of scientists and engineers.
- 1994 **Beta Beta Beta Biological Honor Society Student Research Competition**
1st place Ecology Division; Northeast District 2

TEACHING EXPERIENCE

- Fall 2012 **Instructor** (Genesee Community College) – *GEO 101 World Regional Geography*
Prepared and taught all class materials, created and administered tests and performed grading for a 20-student introductory lecture course focused on exploring how geography has shaped human-environment interactions and the local and regional problems facing them.
- Fall 2011 **Instructor** (Daemen College) – *GEO 117 World Geography*
Prepared and taught all class materials, created and administered tests and performed grading for a 30-student introductory lecture course focused on human-environment interactions in the world's regions and the contemporary issues facing them.

- Instructor** (University at Buffalo) – *GEO 201 Disasters: A Study of Hazards*
Prepared and taught all class materials, created and administered tests and performed grading for a 50-student lecture course that focuses on natural and human-induced disasters and their impact on the natural and social environment.
- Spring 2010 **Teaching Assistant** (University at Buffalo) – *GEO 481/506 Geographical Information Systems Laboratory*
Prepared, taught, and graded laboratory exercises for two 18-seat introductory-level GIS classes. Laboratory exercises focused on basic data management and common GIS tools as well as reinforcing the theoretical concepts presented in lectures.
- Fall 2009 **Instructor** (University at Buffalo) – *GEO 101 Earth Systems Science I*
Prepared and taught all class materials, created and administered tests and performed grading for a 200-student introductory lecture course focused on the fundamental processes and interactions of the atmosphere, hydrosphere, lithosphere and biosphere.
- Spring 2008 **Teaching Assistant** (University at Buffalo) - *GEO 481/506 Geographical Information Systems Laboratory*
Prepared, taught, and graded laboratory exercises for two 18-seat introductory-level GIS classes. Laboratory exercises focused on basic data management and common GIS tools as well as reinforcing the theoretical concepts presented in lectures.
- Fall 2007 **Teaching Assistant** (University at Buffalo) - *GEO 389/504 Business Geographies Laboratory*
Prepared, taught, and graded laboratory exercises for two 18-seat GIS classes. Laboratory exercises emphasized GIS applications in a business setting such as the examination of spatial data storage, location analysis and the spatial modeling of business principles.
- 1999 – 2006 **Science Teacher and Gifted Education Coordinator** (Juniata County School District)
Prepared and taught class materials, directed field work and assessed performance of approximately 90 students annually in Earth Science, Life Science and Physical Science classes. Planned, developed and executed individual projects or educational initiatives for approximately 38 students annually in accordance with their Individualized Educational Programs (IEPs).
- 1993 – 1994 **Teaching Assistant** (Juniata College) – *BI 121 & 122 Biology I & II Lab*
Taught and graded four 40-seat introductory biology laboratory classes. Each class consisted of four individual lab modules in the areas of field ecology, biometry, biotechnology and microbiology.

RESEARCH & RELEVANT EXPERIENCE

- 2010 – 2011 **Research Assistant** (University at Buffalo, Research Advisor – Dr. Sharmsitha Bagchi-Sen)
Researched multi-level spatial patterning of international and domestic public health data in response to local and regional variations in demographic and socio-economic variables
- Summer 2010 **Researcher** (National University of Singapore, Singapore)
Participated in independent and collaborative research with Dr. Yi-Chen Wang, Assistant Professor of Geography at National University of Singapore focusing on analysis of presettlement forests.
- July 2007 **Participant** (Vespucci Summer Institute on GIScience, Fiesole, Italy)
Participated in week long international seminar focused on geospatial ontologies lead by Drs. Nicola Guarino, Werner Kuhn and David Mark.
- 2002 – 2004 **Online Course Developer** (Juniata County School District, PA)
Developed activities, assignments and assessments using Blackboard for year-long classes in Earth Science and Life Science. Reviewed and evaluated completed courses prior to their use.

REVIEWED PAPERS/CONFERENCE PROCEEDINGS

3. Yoo, E.H. and **Trgovac, A.B.** 2011. "Scale effects in uncertainty modeling of presettlement vegetation." *International Journal of Geographical Information Science*. 25: 405-421. (Special Issue – Spatial Ecology)
2. **Trgovac, A. B.** 2008. "The role of the state and individual in sustainable land management." *Regional Studies* 42: 297-298. (Book Review)
1. Yoo, E.H., Wang, Y-C. and **Trgovac, A.B.** (2008) "Spatial Uncertainty Assessment in the Reconstruction of Presettlement Forest Patterns in Western NY, USA." In: Wan, Y. et al. (eds) *Proceeding of the 8th international symposium on spatial accuracy assessment in natural resources and environmental sciences*. World Academic Union (Press). Shanghai, P.R. China, 278-279.

MANUSCRIPTS IN PREPARATION

- Trgovac, A.B.** & Bagchi-Sen, S. The spatial heterogeneity of demographic variables associated with male suicide. In preparation for *Health & Place*
- Trgovac, A.B.** & Larsen, C.P.S. The effects of geographic and taxonomic aggregation in the determination of forest compositional change, circa. 1800 to present. In preparation for *Plant Ecology*
- Kedron, P., **Trgovac, A.B.**, & Bagchi-Sen, S. Policy implications of multi-scale HIV/AIDS monitoring in Thailand. In preparation for *International Journal of Health Geographies*
- Trgovac, A.B.** & Larsen, C.P.S. The influence of sample size and reporting abundance on rank abundance distributions of eastern USA forests. In preparation for *Journal of Vegetation Science*
- Larsen, C.P.S., Tulowiecki, S.J., Wang, Y-C., and **Trgovac, A.B.** An assessment of the use of rank abundance distributions to infer tree species abundance from presettlement land survey line descriptions. In preparation for *American Midland Naturalist*

PROFESSIONAL CONFERENCE PRESENTATIONS

11. **Trgovac, A.B.** 2012. "The effect of taxonomic aggregation on the comparison of presettlement regions." Association of American Geographers Annual Meeting 2012 – Paper Presentation. February 24-28, New York City, NY, USA.
10. **Trgovac, A.B.** 2011. "Unveiling the spatial pattern of forest rank abundance distributions through comparisons of stand age, biodiversity and productivity." Association of American Geographers Annual Meeting 2011 – Paper Presentation. April 12-16, Seattle, WA, USA.
9. **Trgovac, A.B.** 2010. "Determining an appropriate sample size for use in species abundance distribution studies." Middle States Division of the Association of American Geographers Annual Meeting – Paper Presentation. October 22-23, West Point, NY, USA.
8. **Trgovac, A.B.** 2010. "The spatial pattern of forest community abundance distributions in the eastern United States." FOSS4G (Free and Open Source Software for Geospatial) Conference – Research Poster Presentation. September 6-9. Barcelona, Spain.
7. **Trgovac, A.B.** 2010. "The spatial pattern of forest rank abundance distributions in the eastern United States." Department of Geography Seminar Series, National University of Singapore. August 21, Singapore.

6. **Trgovac, A.B.** and Larsen, C.P.S. 2010. "Do the slopes of forest community rank abundance distributions differ in relation to climate and in response to the number of individuals employed?" Association of American Geographers Annual Meeting 2010 – Paper Presentation. April 14-18. Washington, DC, USA.
5. Yoo, E.H. and **Trgovac, A.B.** 2010. "Uncertainty modeling of reconstructed presettlement vegetation surfaces." Association of American Geographers Annual Meeting 2010 – Paper Presentation. April 14-18. Washington, DC, USA.
4. **Trgovac, A.B.** and Larsen, C.P.S. 2009. "Forest community rank abundance distributions: Their relation to climate and response to number of individuals." Department of Geography Graduate Student Symposium – Paper Presentation. November 20. Buffalo, NY, USA.
3. **Trgovac, A.B.** and Larsen, C.P.S. 2009. "The standardization of rank abundance distributions in forest inventories of the eastern United States." National Science Foundation-IGERT P.I. 2009 Project Meeting – Poster Presentation. May 17-19. Washington, DC, USA.
2. **Trgovac, A.B.** and Larsen, C.P.S. 2009. "Does the slope of species rank abundance distributions vary between biomes?" Association of American Geographers Annual Meeting 2009 – Paper Presentation. March 23-28. Las Vegas, NV, USA.
1. Yoo, E.H. and **Trgovac, A.B.** 2008. "Spatial uncertainty assessment in the reconstruction of presettlement forest patterns in western NY, USA." The 8th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences – Paper Presentation. June 25-27. Shanghai, P.R. China.

PROFESSIONAL/DEPARTMENTAL SERVICE

- 2006-2012 **Geography Awareness Week Planning Committee Member** (Geography Graduate Student Association, University at Buffalo)
Coordinated departmental and university-wide events including featured speakers, student presentations and social events, to foster awareness of geography
- 2009-2010 **IGERT Conference Coordinator** (GIScience IGERT, University at Buffalo)
Coordinated and hosted a 3-day interdisciplinary conference in Buffalo, NY titled: "Representing Reality: Imagery in the Cognitive, Social and Natural Sciences" which included research presentations, poster sessions, and panel discussions
- Summer 2009 **Panelist: Mark Diamond Research Foundation Grant**
Served as a reviewer for graduate student applicants seeking this highly prestigious award offered by the University at Buffalo Graduate Student Association.
- Spring 2009 **GIScience IGERT Representative** (NSF IGERT Annual Meeting)
Selected to represent University at Buffalo's GIScience IGERT at the annual P.I. meeting in Washington D.C., May 17-19
- Spring 2009 **IGERT Colloquium Coordinator** (GIScience IGERT, University at Buffalo)
Coordinated weekly seminars IGERT faculty and fellows featuring speakers invited from universities across the country
- 2007-2008 **Graduate Student Senator** (Geography Graduate Student Association, University at Buffalo)
Representative of the Geography Graduate Student Association to the university's Graduate Student Association

- 2006-2007 **Graduate Representative to Geography Department Faculty** (Geography Graduate Student Association, University at Buffalo)
Served as the Ph.D. liaison between Geography Graduate Student Association and Geography department faculty
- 2006 **Prospective Faculty Evaluation Coordinator** (Geography Graduate Student Association, University at Buffalo)
Prepared and distributed evaluations to the graduate students, collated responses and presented results to the Geography department faculty for potential candidates for three tenure-track positions.

INTERNATIONAL PROFESSIONAL EXPERIENCE

- Summer 2010 **National University of Singapore** (Singapore)
Participated in independent and collaborative research with Dr. Yi-Chen Wang, Assistant Professor of Geography at National University of Singapore focusing on analysis of presettlement forests.
- Summer 2010 **FOSS4G Conference** (Barcelona, Spain)
Presented a poster at the *Free and Open Source Software for Geospatial* conference entitled “The spatial pattern of forest community abundance distributions in the eastern United States.”
- January 2009 **International Biogeography Society Meeting** (Merida, Mexico)
Participated in research sessions, graduate student discussions and general board meetings.
- July 2007 **Vespucci Summer Institute on GIScience** (Fiesole, Italy)
Participated in lectures, group research and presentations in topics related to geospatial ontology and GIScience research lead by Drs. Nicola Guarino, Werner Kuhn and David Mark.

PROFESSIONAL AFFILIATIONS

- 2007 – Present The Association of American Geographers
2007 – Present International Biogeography Society

COMPUTER SKILLS

Programming Languages: Matlab, Python, R
Software Packages: AnyLogic, ArcGIS, Blackboard, ENVI, GeoDa, Microsoft Office Suite, SPSS
Operating Systems: OSX, Windows

REFERENCES

Dr. Chris P.S. Larsen, Advisor

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