Martin Swobodzinski
January 31, 2015

Department of Geography
Portland State University
Cramer Hall Rm. 424-I
1721 SW Broadway
Portland, OR 97201

Office: (503) 725-3078
Fax: (503) 725-3166
swobod@pdx.edu
www.mswobodzinski.com

Education

2012 Ph.D., Geography
San Diego State University and University of California at Santa Barbara
Dissertation: Exploring human decision making in the context of web-based public participation in transportation planning
Committee: Dr. Piotr Jankowski (chair), Dr. Martin Raubal, Dr. André Skupin, and Dr. Krzysztof Janowicz

2006 Diplom, Geoinformatics
Institute for Geoinformatics, Westfälische-Wilhelms Universität, Münster, Germany
Thesis: Route calculation constraints for an indoor navigation service for the blind
Advisor: Dr. Martin Raubal

Academic experience

2014-now Assistant Professor, *Portland State University (PSU), Department of Geography, Portland, OR*
2012-14 Visiting Assistant Professor, *University of Minnesota (UMN), Department of Geography, Environment, and Society, Minneapolis, MN*
2011-12 Instructor, *UMN, Department of Geography, Environment, and Society, Minneapolis, MN*
2010-11 Adjunct Instructor, *University of Redlands, School of Business (URSB), San Diego, CA*
2005-10 Teaching Associate, *San Diego State University (SDSU), Department of Geography, San Diego, CA*

Publications in peer-refereed journals

Swobodzinski, M. and Jankowski, P. (2014). Understanding user interaction patterns within online systems for public-participation transportation planning. *Transactions in GIS,* 18(3): 401–420

Swobodzinski, M. and Raubal, M. (2009). An indoor routing algorithm for the blind: Development and comparison to a routing algorithm for the sighted. *International Journal of Geographical Information Science*, 23(10): 1315–1343

Jankowski, P., Ligmann-Zielinska, A. and Swobodzinski, M. (2008). Choice Modeler: A web-based spatial multiple criteria evaluation tool. *Transactions in GIS,* 12(4): 541–561

Encyclopedia entries

Swobodzinski, M. (2010). Reginald Golledge. In Warf, B. (Ed.). *Encyclopedia of Geography.* SAGE Publication, London, pp. 1349-50

Swobodzinski, M. (2010). Spatial cognition. In Warf, B. (Ed.). *Encyclopedia of Geography.* SAGE Publication, London, pp. 2609-13

Work under review

Swobodzinski, M. and Jankowski, P.. Evaluating the interaction of users with web-based decision support systems: A comparison between two clustering methods. *Manuscript subject to revisions for resubmission.*

Swobodzinski, M. and Jankowski P.. The role of location and cost in individual choices of transportation improvement projects. *Manuscript subject to initial review.*

Awards and scholarships

2014 Finalist of the J. Warren Nystrom paper competition, *Annual Meeting of the Association of American Geographers (AAG), Tampa, FL*

2010 President's award for an outstanding paper by a Ph.D. student, *Annual Meeting of the Association of Pacific Coast Geographers (APCG), Coeur d'Alene, ID*

2010 Caldwell, Flores, Winters award for an outstanding student emphasizing GIS applications to human geography, *Department of Geography, SDSU, San Diego, CA*

2006 Winner of the Saarinen student paper competition, *Environmental Perception and Behavioral Geography (EPBG) specialty group, Annual Meeting of the AAG, Chicago, IL*

2005-09 Fellow of the youth support program (Bosch-Jugendhilfe), *Robert Bosch GmbH, Stuttgart, Germany*

Presentations at conferences

2014 Esri International User Conference, San Diego, CA
Understanding user interaction patterns within online decision support systems (paper presentation)

2014 Annual Meeting of the AAG, Tampa, FL
Self-centered and selfless decision making of participants in online transportation planning

2013 Annual Meeting of the AAG, Los Angeles, CA
Data mining and knowledge discovery in rich server log files (paper presentation)

2012 Annual Meeting of the AAG, New York, NY
Evaluating web-based decision support systems through rich server log files (paper presentation)

2011 Annual Meeting of the AAG, Seattle, WA
Revealed and stated preferences of participants in online public-participation transportation planning (paper presentation)

2010 Annual Meeting of the APCG, Coeur d'Alene, ID
Sequence alignment and regression analysis for the exploration of human-computer interaction (paper presentation)

2010 Annual Meeting of the AAG, Washington, D.C.
Individual usage of analytical and deliberative tools in the context of online public-participation transportation planning (paper presentation)

2009 Annual Meeting of the APCG, San Diego, CA
A methodology for the analysis of human-computer interaction within an online public-participation transportation system (paper presentation)

2009 Annual Meeting of the AAG, Las Vegas, NV
Exploring human-computer interaction in the context of online public-participation transportation planning (paper presentation)

2008 Annual Meeting of the AAG, Boston, MA
The role of habitual travel behavior in the decision-making process of the public in online participatory transportation planning (session chair; paper presentation)
Participatory GIS and online deliberative democracy: Reflections on a field experiment (panelist)

2007 Annual Meeting of the AAG, San Francisco, CA
The demolition of the memorial for the victims of the Berlin Wall: Implications for the commemoration of the communist past in reunified Germany (paper presentation)

2006 Annual Meeting of the AAG, Chicago, IL
Information needs of the blind for an indoor navigation service (paper presentation)

University service and professional activities

2014-now Director, *Center for Spatial Analysis and Research (CSAR), Department of Geography, PSU*

2013-now Chair, *EPBG specialty group of the AAG*

2011-14 Awards and scholarship committee, *Department of Geography, Environment and Society, UMN*

2010-12 Vice-chair, *EPBG specialty group of the AAG*

2007-09 Student representative, *EPBG specialty group of the AAG*

2003-04 College intern, *Ohio Department of Job and Family Services, Management Information Services, Geographical Information Systems Unit, Columbus, OH*
2002-03 Exchange student, *Erasmus program of the EU, Universitat Jaume I, Castellón de la Plana, Spain*

Teaching experience
Visualization of Spatial Data (GEOG 496/596; *upper division/graduate*, PSU *(Winter 2015)*
Introduction to GIS (GEOG 488/588); *upper division/graduate,* PSU *(Winter 2015)*
Maps and Geographic Information (GEOG 380); *lower division*; PSU *(Fall 2014)*
Mapping Our World (GEOG 1502); *lower division; UMN (Spring 2014)*
Seminar on GIS, Technology, and Society (GEOG 8291); *graduate; UMN (Spring 2014)*
Programming in GIS (GIS 5578); graduate; *UMN (Spring 2012, 2013, 2014)*
Seminar on Spatial Analysis and Modeling (GEOG 8292); *graduate; UMN (Spring 2012, 2013)*
Numerical Spatial Analysis (GEOG 3531/5531); *upper division/graduate; UMN (Fall 2011, 2012, 2013)*
Principles of GIScience (GEOG 3561/5561); *upper division/graduate; UMN (Fall 2011, 2012, 2013)*
GIS in Business (BUSB 443); *upper division; URSB (Fall 2010, Spring 2011)*
Spatial Location and Structure of Cities (GEOG 556); *upper division; SDSU (Spring 2010)*
Advanced GIS (GEOG 683); *graduate; SDSU (Fall 2008 co-instructed with Dr. Piotr Jankowski, Fall 2009)*
Advanced GIS Lab (GEOG 683L); *graduate; SDSU (Fall 2008)*
GIS Applications Lab (GEOG 584L); *upper division; SDSU (Spring 2008, 2009)*
Advanced GIS Lab (GEOG 683L); *graduate; co-instructor; SDSU (Fall 2007, 2008)*
GIS Lab (GEOG 484L); *upper division; SDSU (Spring 2006)*

Student advisees
Cole Kelleher *(MGIS; graduated in 2013)*, Mark Ellefson *(MGIS; graduated in 2013)*

Languages
Spanish *(low intermediate speaking, reading, and listening)*, Polish *(beginning speaking and reading; advanced listening)*

Professional memberships
AAG*(2006-now),* APCG *(2009-11)*

Selected skills
Proficiency in object-oriented and scripting programming languages (e.g., Java, Python, VB .Net, and JavaScript); extensive experience with the manipulation of relational databases (e.g., MS Access) and SQL; working knowledge of SOAP, AJAX, HTML and related current Internet technologies; track record of custom application development using ArcObjects and the Google API.