

RESUME

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Education

- *currently:*
Ph.D. candidate in Geography (Applied GIScience), University of North Carolina at Charlotte, Department of Geography and Earth Sciences, Center for Applied Geographic Information Science (CAGIS), Charlotte, NC, USA, 2007 - to date.
- RNDr. in Ecology and Environmental Sciences, Palacky University, Faculty of Natural Sciences, Department of Ecology, Olomouc, Czech Republic, 2008.
- Fulbright student of Geographic Information Sciences for Development and Environment (GISDE), Clark University, Department of International Development, Community and Environment (IDCE), Worcester, Massachusetts, USA, 2006 - 2007.
- Master of Science in Ecology and Environmental Sciences, Palacky University, Faculty of Natural Sciences, Department of Ecology, Olomouc, Czech Republic, 2001 - 2004.
- Teaching Certificate - Environmental Education, Palacky University, Faculty of Natural Sciences, Department of Ecology, Olomouc, Czech Republic, 2002 - 2005.
- Bachelor of Science in Ecology and Environmental Sciences, Palacky University, Faculty of Natural Sciences, Department of Ecology, Olomouc, Czech Republic, 1998 - 2001.
- Visitor exchange student at the College of the Atlantic, Bar Harbor, Maine, USA, 2002 - 2003.

Recent Employment

- Research Assistant, University of North Carolina at Charlotte, Department of Geography and Earth Sciences, Center for Applied Geographic Information Science (CAGIS), Charlotte, NC, USA, 2007 - to date.
- GIS analyst, Agency for Nature Conservation and Landscape Protection of the Czech Republic - Litovelske Pomoravi Protected Landscape Area Administration, Litovel, Czech Republic, 2004 - 2007.

Selected Refereed Publications

- Ellis, A. M., **Vaclavik, T.**, Meentemeyer, R. K. (in press): When is connectivity important? A case study of the spatial pattern of sudden oak death. *Oikos*.

- **Vaclavik, T.** & Meentemeyer, R. K. (2009): Invasive species distribution modeling (iSDM): Are absence data and dispersal constraints needed to predict actual distributions? *Ecological Modelling* 220(23): 3248-3258.
- **Vaclavik, T.** & Rogan, J. (2009): Identifying trends in land use/land cover changes in the context of post-socialist transformation in Central Europe: A case study of the greater Olomouc region, Czech Republic. *GIScience & Remote Sensing* 46(1): 54-76.
- **Vaclavik, T.** (2008): Mapping land-use/land-cover change in the Olomouc region, Czech Republic. *URISA Journal* 20(1): 45-51.
- **Vaclavik, T.,** Sarapatka, B., Bednar, M. (2004): The use of pedological data in sustainable modeling, In: Rohoskova, M. (ed.): *Pedodiversity - Pedological Days 2004*. CZU, CPS A GU AV CR: 126-132.
- **Vaclavik, T.** (2004): The use of GIS in ecological planning: A case study of Mount Desert Island. *Master's Thesis*. Palacky University, Faculty of Natural Sciences, Department of Ecology and Environmental Sciences, 89 p.

Conference Presentations

- **Vaclavik, T.** & Meentemeyer, R. K. (2009): Invasive species distribution modeling (iSDM): Do we need absence data and dispersal constraints for accurate predictions? 2009 Annual Meeting of the SouthEastern Division of the Association of American Geographers (SEDAAG). Knoxville, TN, USA.
- **Vaclavik, T.** & Vaclavikova, M. (2009): Using GIS and remote sensing for land use/land cover change (LULCC) detection in the context of post-socialist transformation in Central Europe. European IALE Conference. Salzburg, Austria.
- **Vaclavik, T.,** Kanaskie, A., Goheen, E., Ohmann, J., Hansen, E., Meentemeyer, R. K. (2009): Mapping the risk of sudden oak death in Oregon: Prioritizing locations for early detection and eradication. 4th Sudden Oak Death Science Symposium. Santa Cruz, CA, USA.
- **Vaclavik, T.** & Meentemeyer, R. K. (2009): Spatial prediction of biological invasions: Effect of using presence/absence vs. presence-only data on model performance. 24th Annual Symposium of the US-Regional Association for the International Association for Landscape Ecology (US-IALE). Snowbird, UT, USA.
- **Vaclavik, T.** & Meentemeyer, R. K. (2009): Spatial prediction of biological invasions: Effect of using presence/absence vs. presence-only data on model performance. Annual Meeting of the Association of American Geographers (AAG). Las Vegas, NE, USA.
- Ellis, A. M., **Vaclavik, T.,** Meentemeyer, R. K. (2008): Accounting for effective connectivity in spatially explicit disease models. 2008 Annual Meeting of the SouthEastern Division of the Association of American Geographers (SEDAAG). Greensboro, NC, USA.
- Ellis, A. M., **Vaclavik, T.,** Meentemeyer, R. K. (2008): Incorporating effects of spatial heterogeneity into infectious disease models. 93rd Ecological Society of America Annual Meeting, Milwaukee, WI, USA.
- **Vaclavik, T.** & Ortega, M. (2008): Species distribution modeling: A comparative assessment of Mahalanobis Typicality and Ecological Niche Factor Analysis. 2008 Meeting of the Association of American Geographers. Boston, MA, USA.

- **Vaclavik, T.** & Ortega, M. (2008): Modeling potential distribution of Norway Maple in Massachusetts. 23rd Annual Symposium of the US-Regional Association for the International Association for Landscape Ecology (US-IALE). Madison, WI, USA.
- Meentemeyer, R. K. & **Vaclavik, T.** (2008): Landscape pathology of emerging forest diseases: Concepts and applications. 2008 Annual Meeting of the Plant Pathology Society of North Carolina. Charlotte, NC, USA.
- **Vaclavik, T.** & Meentemeyer, R. K (2008): Predicting invasion probability of Sudden Oak Death disease in California. 2008 Graduate Research Forum – Niner Research Across the Disciplines. Charlotte, NC, USA.
- **Vaclavik, T.** (2007): Land use/land cover changes in the context of postsocialistic transformation in Eastern Europe. 2007 Annual Meeting of the SouthEastern Division of the Association of American Geographers (SEDAAG). Charleston, SC, USA.
- **Vaclavik, T.** (2007): Identifying trends in land use/land cover changes in the Olomouc region, Czech Republic. The 45th Annual Conference of the Urban and Regional Information Systems Association (URISA). Washington DC, USA.
- Neeti, N., **Vaclavik, T.** & Niphadkar, M. (2007): Predictive Distribution Modeling with LCM (Potential Distribution of Japanese Knotweed (*Polygonum cuspidatum*) in Massachusetts). ESRI user's conference. San Diego, USA.
- **Vaclavik, T.** (2007): Identifying land cover change in the Olomouc region, Czech Republic. Graduate Student Multidisciplinary Conference. Clark University, Worcester, MA, USA.

Research Experience

- Research Assistant, spatial distribution modelling of invasive species and disease pathogens. Center for Applied Geographic Information Science (CAGIS), University of North Carolina at Charlotte, NC, USA, 2007 - to date.
- GIS analyst, the use of GIS and remote sensing in assessing land cover/land use changes and conservation management practices in protected areas. Agency for Nature Conservation and Landscape Protection of the Czech Republic, Clark University, MA, USA, 2005 - 2007.
- Research Assistant, bird colony research on Great Duck Island, Maine, USA. College of the Atlantic in Bar Harbor, Maine and University of California in Berkeley in cooperation with Intel Corporation, summer 2003.
- Research Assistant, environmental reclamation and restoration at the landscape level, Reclamation Company Havirov and CSA Mining Company, Karvina, Czech Republic, 2000 - 2002.

Professional Activities and Memberships

- Member, United States Regional Association of the International Association for Landscape Ecology (US-IALE), 2008 - to date.
- Member, The Association of American Geographers (AAG), 2007 - to date.
- Member, South Eastern Division of the Association of American Geographers (SEDAAG), 2007 - to date.
- Member, The Society for Conservation GIS (SCGIS), 2007 - to date

- GIS tutor, Palacky University, Faculty of Natural Sciences, Department of Ecology, Olomouc, Czech Republic, 2005 - 2006.
- Member and education programs instructor, Environmental Education Centre Slunakov, NGO, Olomouc, Czech Republic, 2000 - 2006.
- Participant in developing GIS Spatial Analysis training (ESRI Virtual Campus Course), College of the Atlantic and Maine Department of Environmental Protection, Maine, USA, 2002 - 2003.
- GIS consultant and environmental education instructor, MDI Water Quality Coalition, Bar Harbor, Maine, USA, 2002 - 2003.
- English lecturer, Krkonose National Park Administration, Spindleruv Mlyn, Czech Republic, November, 2003.
- English tutor, Palacky University, Olomouc, Czech Republic, 2001 - 2004.
- Participant in protected area maintenance, Strom - Environmental Organization for Management of Protected Areas Project, Chvalkov, the Czech Republic, Summer 2000 and 2001.

Awards and Honors

- John Fraser Hart Award, Best PhD Student Paper, SouthEastern Division of the Association of American Geographers (SEDAAG), Knoxville, TN, USA, 2009.
- Integrated Hardwood Resource Management's Scholarship for the 4th Sudden Oak Death Symposium, Santa Cruz, CA, USA, 2009.
- NASA-MSU Professional Enhancement Award, supported by National Aeronautics and Space Administration (NASA) and Michigan State University (MSU), Center for Systems Integration and Sustainability (CSIS), East Lansing, MI, USA, 2009.
- 1st Place, Research Competition Award, 2008 Graduate Research Forum – Niner Research Across the Disciplines, Charlotte, NC, USA, 2008.
- The 1st Annual James O. Wheeler Travel Award, The Catawba Valley Geographical Society, Charlotte, NC, USA, 2008.
- 2nd Place, URISA Paper Competition Award, Urban and Regional Information Systems Association, Washington D.C., USA, 2007.
- Fulbright Scholarship for Graduate Studies in the U.S., J.W. Fulbright Commission, Bi-national organization for Educational Exchanges with the USA, 2006 - 2007.
- Study grant, Dagmar and Vaclav Havel VIZE 97 Foundation, Prague, Czech Republic, 2006.
- 3rd Place in GisoHar 2004 - Ministry of Environment competition in Geographic Information Systems, Czech Republic, 2004.
- Study grant, American Fund for Czech and Slovak Leadership Studies, New York, USA, 2003.
- Merrill Scholarship for one year study at a university in the U.S., study program of Charles Merrill, Palacky University and U.S. partner schools, 2002 - 2003.
- Red Diploma - excellent student results award, Palacky University, Olomouc, Czech Republic, 2001 and 2004.

Additional Skills

- Computer skills - GIS & RS software (ESRI, IDRISI, ENVI, open source), Windows Office, web design, graphic software, statistical software, Visual Basic for Applications, Python, etc.
- Languages: Czech (mother tongue)
 English (fluent, TOEFL exam – computer-based score: 300)