

ROBERT GILMORE PONTIUS JR

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PROFESSIONAL PREPARATION

University of Pittsburgh, Pittsburgh, PA, USA. Mathematics, B.S. 1984.
The Ohio State University, Columbus, OH, USA. Applied Statistics, M.A.S. 1989.
State University of New York, Syracuse, NY, USA. Environmental Science, Ph.D. 1994.
Doctoral Advisor: Charles A.S. Hall

APPOINTMENTS

Associate Professor (2004 – present) and Assistant Professor (1998 – 2004)
Graduate School of Geography
Clark University, 950 Main Street, Worcester MA 01610-1477
Associate Scientist 1995-1997
Tellus Institute & Stockholm Environment Institute, Boston MA
Assistant Professor 1994-1995
Department of Geography and Center for Energy and Environmental Studies
Boston University, Boston MA

PUBLICATIONS (available at www.clarku.edu/~rpontius)

FIVE PUBLICATIONS RELATED TO PROPOSED ACTIVITY

- Pontius Jr, Robert Gilmore and Marco Millones. 2011. Death to Kappa: birth of quantity disagreement and allocation disagreement for accuracy assessment. *International Journal of Remote Sensing*: in press.
- Pontius Jr, Robert Gilmore, Smitha Peethambaram, and Jean-Christophe Castella. 2011. Comparison of three maps at multiple resolutions: a case study of land change simulation in Cho Don District, Vietnam. *Annals of the Association of American Geographers* 101(1): 45-62.
- Pontius Jr, Robert Gilmore and Xiaoxiao Li. 2010. Land transition estimates from erroneous maps. *Journal of Land Use Science* 5(1): 31-44.
- Pontius Jr, Robert Gilmore and John Connors. 2009. Range of categorical associations for comparison of maps with mixed pixels. *Photogrammetric Engineering & Remote Sensing* 75(8): 963-969.
- Pontius Jr, Robert Gilmore, et al. 2008. Comparing the input, output, and validation maps for several models of land change. *Annals of Regional Science* 42(1): 11-47.

SYNERGISTIC ACTIVITIES

Since 1999, Pontius has been involved in four NSF-funded programs: Long Term Ecological Research (LTER), Human Environment Regional Observatory (HERO), Human Dimensions of Global Environmental Change (HDGEC), and Coupled Natural and Human Systems (CNH). He has used these programs as a means to train undergraduates, especially women and minorities, through coordination with NSF's Research Experience for Undergraduates (REU) program. With previous NSF-funding, Pontius created methods of analysis that have been incorporated into the GIS software *Idrisi*, which reaches more than 100,000 users worldwide. Pontius is now an active participant in the Coupled Human and Natural Systems (CHANS) network.

EXPERTISE

Geographic Information Science (GIS), Quantitative Environmental Modeling, Coupled Human & Natural Systems, Land Change Science, Spatial Statistics

RECENT HONORS

American Institute of Biological Sciences Distinguished Scientist Award

Investigators of the Long Term Ecological Research (LTER) network 2010

Invited Keynote Speaker

National French Geomatics Conference (SAGEO) Toulouse, France 2010

Southern Forestry and Natural Resources GIS conference in Orlando FL, USA 2008

Spatial Accuracy conference in Lisbon, Portugal 2006

Michael Brehney Prize for best paper in Environment and Planning B 2005

Zayed International Prize for the Environment

Authors of the Millennium Ecosystem Assessment 2005

EDITORIAL BOARDS

Annals of the Association of American Geographers, Remote Sensing Letters, International Journal of Geographical Information Science, Landscape Ecology, Encyclopedia of Earth

PUBLICATIONS

35 Peer-reviewed journal articles, 6 book chapters, 8 entries in edited volumes, 22 conference proceedings, 2 software manuals, 8 other reports

PRESENTATIONS

34 invited by universities, 68 professional conferences, 15 workshops

ADVISOR OF STUDENTS

6 Doctoral dissertations, 78 Masters Theses, 11 Bachelors Honors Theses