

EDWARD F. PULTAR

Student, Teacher, GIS Data Engineer, Software Engineer
 Department of Geography
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Professional Preparation:

- 2011 PhD. Geography, University of California, Santa Barbara (*in progress, tentative date*)
 Research: GIS, geospatial agents, travel behavior, modeling
- 2010 Honorary Appointment, Visiting Staff, Geomatics, University of Melbourne, Australia
 Regular research meetings with Stephan Winter and other faculty in the School of Engineering, Department of Geomatics
 Research of location-based social network capital
- 2007 M.S. Geography, University of Utah
 Thesis: EDGIS: A Dynamic GIS using Space Time Points
- 2005 B.S. Computer Science, Minor in Mathematics, University of Utah
 Courses in Java, C++, algorithms, web software programming, 2D and 3D OpenGL graphics, AI, databases, computer architecture, UNIX, scientific computation, physics, calculus
- 2005 B.S. Geography, University of Utah
 Courses in GIS, physical geography, fire modeling, human geography, spatial statistics, biogeography, spatial databases with Oracle and MS SQL Server using ArcSDE, independent study of wireless network mapping and agent-based modeling

Appointments:

- 6–9/2010 GIS Engineer Intern, Google, Mountain View, California
- 3–6/2009 & 3–6/2010 Teaching Assistant, Dept. of Geography, UC Santa Barbara
- 9–12/2008 & 9–12/2009 Teaching Assistant, Dept. of Geography, UC Santa Barbara
- 3/2009 Cartographer, Frommer's Travel Guides
- 1–3/2009 Teaching Assistant, Dept. of Geography, UC Santa Barbara
- 7/2005–5/2007 Research Assistant, Dept. of Geography, U of U

Refereed Publications

- Pultar, E., Raubal, M., and Goodchild, M. F. (2008) GEDMWA: Geospatial Exploratory Data Mining Web Agent. In *16th ACM International Symposium on Geographic Information Systems, SIGSPATIAL. ACM GIS 2008*, eds. H. Samet, C. Shahabi, and O. Wolfson: November 5-7, 2008, Irvine, CA, 499–502.
- Pultar, E., Raubal, M., Cova, T.J., and Goodchild, M.F. (2009) Dynamic GIS Case Studies: Wildfire Evacuation and Volunteered Geographic Information. *Transactions in GIS*, 13(s1), 85–104.
- Pultar, E. and Raubal, M. (2009) Progressive Tourism: Integrating Social, Transportation, and Data Networks. In Sharda, N. (Ed.) *Tourism Informatics: Visual Travel Recommender Systems, Social Communities and User Interface Design*. IGI Global, Hershey, PA, 145–160.
- Pultar, E. and Raubal, M. (2009) A Case for Space: Physical and Virtual Location Requirements in the CouchSurfing Social Network. In *International Workshop on Location Based Social Networks*

- (LBSN'09) at 17th ACM International Symposium on Geographic Information Systems, SIGSPATIAL ACM GIS 2009, eds. X. Zhou and X. Xie: November 3, 2009, Seattle, WA, 88–91.
- Pultar, E., Cova, T.J., Yuan, M., and Goodchild, M.F. (2010) EDGIS: A Dynamic GIS Using Space Time Points. *International Journal of Geographical Information Science*, 24, 329–346.
- Pultar, E., Winter, S., Raubal, M. (2010) Location-Based Social Network Capital. In *GIScience 2010 Extended Abstracts Volume*, eds. R. Purves and R. Weibel: September 14–17, 2010, Zürich, Switzerland.
- Pultar, E. (2010) The Synergy of Social, Transportation, Communication and Data Networks. In *Proceedings of the GIScience 2010 Doctoral Colloquium*, eds. J.O. Wallgrün and A.-K. Lautenschütz: September 18, 2010, Zürich, Switzerland, 63–68.

Selected Presentations

- 2009 “Dynamic GIS Case Studies: Wildfire Evacuation and Volunteered Geographic Information” at ESRI Annual User Conference, San Diego, CA
- 2007 Winner, GIS Specialty Group Student Paper Competition at Association of American Geographers (AAG) Annual Meeting for paper and presentation of “EDGIS: A Dynamic GIS Based on Space Time Points”
- 2006 “The Geography of Wireless Networks” at RS-2006: Eleventh Biennial Forest Service Remote Sensing Applications Conference
- 2009 Invited presentation, “Open Source GIS,” for spatial@ucsb spatial technology meeting
- 2010 First place winner for presentation of “Hurricanes and Tropical Systems in Google Earth” at Google Intern Poster Show, Mountain View, CA

Awards & Honors

- 2001 International Baccalaureate (IB) diploma, West High School, Salt Lake City, Utah
- 2001 Philippine-American Association of Utah (PAAU) Scholarship
- 2005 National Council for Geographic Education and Association of American Geographers (AAG) Award for Excellence of Scholarship
- 2005 Selected for funding to research wireless network mapping with Dr. Paul M. Torrens by the Undergraduate Research Opportunities Program at U of Utah
- 2005 “The Geography of Wireless Networks,” U of U Undergrad Research Abstracts Journal
- 2007–2010 Jack and Laura Dangermond Travel Scholarship
- 2009 NSF AGEP (Alliances for Graduate Education and the Professoriate) Travel Grant Award
- 2009 Excellence in Teaching Award, UC Santa Barbara Department of Geography
- 2010 President’s Dissertation Year Fellowship, University of California, Santa Barbara
- 2010 Jack and Laura Dangermond Fellowship Award for Excellence in GIScience Research
- 2010 UCTC Dissertation Research Grant