

ANTHONY C. ROBINSON

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ACADEMIC HISTORY

Doctor of Philosophy, Geography (ABD)

Expected graduation in May, 2008

The Pennsylvania State University

Advisor: Alan M. MacEachren

Concentration: Exploratory Geovisualization, Interaction/Interface Design, Medical Geography

Dissertation Topic: Supporting Geovisual Synthesis in Epidemiology

Passed Candidacy in June, 2006

Defended Proposal in November, 2006

Passed Comprehensives in December, 2006

Master of Science, Geography (2005)

The Pennsylvania State University

Thesis: "Assessing Geovisualization Tools in Cancer Epidemiology: A Design Framework for an Exploratory Toolkit"

Advisor: Alan M. MacEachren

Bachelor of Science in Applied Geography (2002)

East Carolina University

Minor: Urban and Regional Planning

Additional Certificate in GIS Studies

Cumulative GPA: 3.955

TEACHING AND RESEARCH EXPERIENCE

Instructor, Geography 361 – Cartographic Design (Spring and Fall 2007)

Supervised by: Cynthia A. Brewer

Taught upper-level undergraduate students fundamentals of Cartographic Design in both lecture and lab settings. Created complete set of lectures and course materials. Supervised a TA who handled lab sections during Fall 2007. Evaluations available for review by request.

Research Assistant, ARDA STNexus Project, GeoVISTA Center (Summer 2005, Spring 2006)

Supervised by: Donna J. Peuquet

Created interface/interaction designs for new space-time visualization tools to support intelligence analysis. Responsible for conducting evaluations of prototype toolkits.

Teaching Assistant, Geography 321 – Cartographic Design (Fall 2005)

Supervised by: Cynthia A. Brewer

Responsible for creating lab assignments and teaching practical cartography skills to three lab groups (46 students).

Research Assistant, NCI Geovisualization Project, GeoVISTA Center (2003-2007)

Supervised by: Alan M. MacEachren

Led interface/interaction design for new geovisualization tools built for the National Cancer Institute.

RESEARCH

Publications

- **Robinson, A. C.**, J. Chen, G. Lengerich, H. Meyer, and A. M. MacEachren. 2005. Combining usability techniques to design geovisualization tools for epidemiology. *Cartography and Geographic Information Science*. 32:243-255.
- **Robinson, A. C.** 2005. Geovisualization and epidemiology: A general design framework. *Proceedings of the 22nd International Cartographic Conference*, A Coruña, Spain, July 9-16.
- MacEachren, A. M., **A. C. Robinson**, S. Hopper, S. Gardner, R. Murray, and M. Gahegan. 2005. Visualizing geospatial uncertainty: What we know and what we need to know. *Cartography and Geographic Information Science* 32:139-60.
- **Robinson, A. C.**, J. Chen, G. Lengerich, H. Meyer, and A. M. MacEachren. 2005. Combining usability techniques to design geovisualization tools for epidemiology. *Proceedings of the Auto-Carto Conference*, Las Vegas, NV, March 18-23.
- **Robinson, A.C.** (2006) Highlighting techniques to support geovisualization. *Proceedings of the ICA Workshop on Geovisualization and Visual Analytics*, Portland, OR, June 24.
- Bhowmick, T., Gruver, A., **Robinson, A.C.**, E. Lengerich, and A.M. MacEachren. (2006) Using E-Delphi to evaluate the Pennsylvania cancer atlas. *Proceedings of the Auto-Carto Conference*, Portland, OR, June 25-28.
- **Robinson, A.C.**, Weaver, C. (2006) Re-Visualization: Interactive Visualization of the Process of Visual Analysis. *Proceedings of GIScience 2006 Workshop on Visualization, Analytics, and Spatial Decision Support*. Muenster, Germany, September 20.
- Weaver, C., Fyfe, D., **Robinson, A.C.**, Holdsworth, D., Peuquet, D., and A.M. MacEachren. (2006) Visual analysis of historic hotel visitation patterns. *Proceedings of the IEEE Symposium on Visual Analytics Science and Technology 2006*. Baltimore, MD, October 31 – November 2.
- Weaver, C., Fyfe, D., **Robinson, A.C.**, Holdsworth, D., Peuquet, D., and A.M. MacEachren (2007) Visual analysis of historic hotel visits. *Information Visualization* 6(1):
- Tomaszewski, B., **Robinson, A.C.**, Stryker, M., and A.M. MacEachren. (2007) Geovisual analytics and crisis management. *Proceedings of the 4th International Conference on Intelligent Human Computer Systems for Crisis Response and Management (ISCRAM 2007)*. Delft, Netherlands, May 13 – 16.
- Bhowmick, T., **Robinson, A.C.**, Gruver, A., E. Lengerich, and A.M. MacEachren. (In Progress) Distributed evaluation of the Pennsylvania cancer atlas. *International Journal of Health Geographics*

- **Robinson, A.C.** (2007) Synthesizing Results in Geovisualization. *Proceedings of the 23rd International Cartographic Conference*. Moscow, Russia, August 4th-10th.
- **Robinson, A.C.**, Koua, E., Hardisty, F., and Alan M. MacEachren. (2007) The GeoEX Portal: Web-Based Dissemination of Geovisual Analytic Results. *Proceedings of the ICA Commission on Visualization and Virtual Environments Workshop "From Geovisualization Toward Geovisual Analytics"*, Helsinki, Finland, August 2nd – 3rd.
- **Robinson, A.C.** (2007) Synthesizing Geovisual Analytic Results. *Proceedings of the IEEE Visual Analytics, Science and Technology Conference Doctoral Colloquium*. Sacramento, CA, October 29th – November 1st.
- **Robinson, A.C.** (2007) A Design Framework for Exploratory Geovisualization in Epidemiology. *Information Visualization*. 6(3) 197-214.

Presentations / Posters

- **Robinson, A.C.**, Crawford, S., Lengerich, E., and Alan M. MacEachren. "The Pennsylvania Cancer Atlas" Poster presented at the URISA Public Health and GIS Conference in New Orleans, LA. May 20-23, 2007.
- **Robinson, A.C.**, Weaver, C. "Atlas Layouts for Geovisualization." Presentation at the annual meeting of the North American Cartographic Information Society in Madison, WI. October 18-21, 2006.
- **Robinson, A.C.** "Geographic Visualization to Support Epidemiology in Bulgaria" Presentation to the Department of Epidemiology and Social Medicine at the Sofia Medical University in Sofia, Bulgaria. March 9, 2006.
- **Robinson, A.C.** and A.M. MacEachren. "Geovisualization Design for Unreachable Users." Presentation at the annual meeting of the North American Cartographic Information Society in Salt Lake City, UT. October 12-15, 2005.
- **Robinson, A.C.** "Interaction Design Techniques for Geovisualization: Designing and Assessing Tools for Cancer Epidemiology" Presentation at the annual meeting of the Association of American Geographers in Denver, CO. April 5-9, 2005.
- **Robinson, A.C.**, Chen, J., Meyer, H. and MacEachren, A.M. "Human-Centered Design of Geovisualization Tools for Cancer Epidemiology" Poster presented at the 2004 GIScience Conference. College Park, MD. October 20-23, 2004.
- **Robinson, A.C.** "Visualizing Health: Designing Usable Tools for Epidemiology" Invited presentation for the Penn State Science, Medicine, Technology, and Culture Coffee Hour Series. December 16, 2004.
- **Robinson, A.C.** "Web-Based Collaborative Tools for Geospatial Data Exploration." Demonstration given at the 2004 Conference on Digital Government Research. Seattle, WA. May 24-26, 2004

Reviewer For

- International Journal of Geographic Information Science
- IEEE INFOVIS, VAST, and IV Conferences
- Kartographische Nachrichten
- Applied Geography Conference

AWARDS

- 2002 National Geographic Society Cartography Award for the map, “Afghanistan: An Overview.” \$1200
- 2002 South East Division of the Association of American Geographers Merle Prunty Award for outstanding scholarship in Geography. \$500
- 2005 E. Willard Miller Award (M.S. level) paper competition in the Department of Geography at Penn State. \$1000
- 2005 Penn State College of Earth and Mineral Sciences Centennial Travel Award. \$500
- 2005 Young scholar travel grant to attend the 22nd annual meeting of the International Cartographic Association in A Coruña, Spain. Grant provided by the United States National Committee of the ICA. \$1750
- 2005 United States Geospatial Intelligence Foundation Scholarship. \$5000
- 2005 College of Earth and Mineral Sciences Photo Contest – 1st place, Graduate Student
- 2007 Young scholar travel grant to attend the 23rd annual meeting of the International Cartographic Association in Moscow, Russia. Grant provided by the United States National Committee of the ICA. \$1800

OTHER ACTIVITIES

- Elected graduate representative for the department of Geography, 2006-2007
- College of Earth and Mineral Sciences Graduate Council representative, 2007
- Graduate representative for the department Coffee Hour Committee, 2005
- GIScience session organizer for the first annual noBOUNDARIES 2006 Geography Graduate Student Conference, held February 25, 2006 at University Park, PA.
- I play guitar and drums - I have a small studio in which I love to record when I have time.