

Curriculum Vitae**Dr. Amy L. Griffin****1. Personal**

Date of birth	24 May 1975	Citizenship	USA, Australia
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2. Education

2006	GrCrt.	University of New South Wales, Graduate Certificate in University Teaching and Learning
2004	Ph.D.	The Pennsylvania State University, University Park, PA, USA. Geography
2000	M.S.	The Pennsylvania State University, University Park, PA, USA. Geography
1997	B.A.	Macalester College, St. Paul, MN, USA, Geography, Chemistry, Art (History Emphasis), Cum Laude

3. Theses

2004	Understanding how scientists use data-display devices for interactive visual computing with geographical models
2000	Feeling it out: The use of haptic visualization for exploratory geographical analysis
1997	Alternative methods of organic chemistry instruction using animation and visualization technologies

4. Honours, Awards, and Recognition

2008	Rector's Commendation for Excellence in Classroom Teaching
2005	Estelle Canning Memorial Prize for the best paper presented at the Annual Meeting of the Australian Map Circle
2003	Penn State Alumni Association Dissertation Award
2000	E. Willard Miller Award in Geography, Best Student Paper—M.S. level, Department of Geography, The Pennsylvania State University
1999-2002	National Defense Science and Engineering Graduate Fellow
1999	Jacob K. Javitz Graduate Fellowship (declined)
1998-2000	Wilson College of Earth and Mineral Sciences Graduate Fellow, The Pennsylvania State University
1998-1999	University Graduate Fellow, The Pennsylvania State University
1997-1998	Fulbright Fellowship, Geographisches Institut, Ruhr Universität, Bochum, Germany

5. Employment

- 2007 Professeur invitee, Laboratoire Image et Ville, Universite Louis-Pasteur, Strasbourg, France
- 2004- Lecturer, School of Physical, Environmental and Mathematical Sciences, University of New South Wales-ADFA, Canberra, Australia
Teaching responsibilities: undergraduate courses in environmental hazards and GIScience and remote sensing; postgraduate courses in GIScience
- 2003 Instructor, Department of Geography, The Pennsylvania State University, University Park, PA, USA
Teaching responsibilities: undergraduate cartography course (2 semesters)
- 2003 Research Assistant, GeoVISTA Center, Department of Geography, The Pennsylvania State University, University Park, PA, USA
Projects:
+ Seeing clusters that move through space and over time
+ Analyzing geovisualization tool use among cancer researchers
- 2002 Teaching Assistant, Department of Geography, The Pennsylvania State University, University Park, PA, USA
Teaching responsibilities: undergraduate cartography practical exercises (1 semester)
- 1999 Teaching Assistant, Department of Geography, The Pennsylvania State University, University Park, PA, USA
Teaching responsibilities: undergraduate Computing for the Earth Sciences practical exercises (1 semester)

6. Publications

Refereed Papers

1. **Griffin, A. L.**, and S. Bell. (2009). "Applications of signal detection theory to geographic information science." *Cartographica*, in press.
2. Bhowmick, T., **Griffin, A. L.**, MacEachren, A. M., Kluhsmann, B and E. Lengerich. (2008). "Informing geospatial toolset design: Understanding the process of cancer data exploration and analysis", *Health & Place*, 14: 576-607.
3. Scheyvens, R., **Griffin, A. L.**, Jocoy, C., Liu, Y. and M. Bradford. (2008). "Experimenting with active learning: Dispelling the myths that perpetuate resistance." *Journal of Geography in Higher Education*, **32**(8): 51-69.
4. Banos, A. and **A. L. Griffin**. (2007). "A methodology for exploring urban neighbourhood shapes and sizes." *Proceedings of the 15th European Colloquium on Theoretical and Quantitative Geography*, Montreux, Switzerland, September 7-11.
5. **Griffin, A.L.**, MacEachren, A.M., Hardisty, F., Steiner, E. and B. Li. (2006). "A comparison of animated maps with static small-multiple maps for visually identifying space-time clusters." *Annals of the Association of American Geographers*. **96**(4): 740-53.
6. **Griffin, A.L.** (2002). "Feeling it out: The use of haptic visualization for exploratory geographical visualization." *Cartographic Perspectives*. **39**. 12 - 29.

7. Harrower, M., MacEachren, A.M. and **A.L. Griffin**. (2000). "Developing a geographic visualization tool to support earth science learning." *Cartography and Geographic Information Science*. **27**(4). 279 - 294.

Refereed Papers – In Review/Preparation

1. Mishra, S.R. and **A. L. Griffin**. "Encroachment: A Threat to Resource Sustainability in Chilika Lake, India" *Applied Geography*, in review.
2. **Griffin, A. L.** "How experts interact with geospatial data: Relationships between expert-user characteristics, geovisualization tool use and hypothesis generation." To be submitted to the *Cartography and Geographic Information Science*.

Book Chapters

1. **Griffin, A. L.** (2008). "Visual Variables." In *Encyclopedia of Geographic Information Science*. Kemp, K. (Ed). Thousand Oaks, CA: SAGE Publications. p. 506-9.
2. **Griffin, A L.** (2009). "Graphing: Information graphics." In *International Encyclopaedia of Human Geography*, Kitchin, R. (Ed)., forthcoming.
3. **Griffin, A L.** (2009). "Cartography: Colour, mapping." In *International Encyclopaedia of Human Geography*, Kitchin, R. (Ed)., forthcoming.

Book Reviews

1. **Griffin, A.L.** (2007). Review of M. Monmonier. *From Squaw Tit to Whorehouse Meadow: how maps name, claim and inflame*. Chicago: University of Chicago Press. *Journal of Spatial Science*, 52(1): 201-2.
2. **Griffin, A.L.** (2006). Review of C.P.J.M van Elzakker. *The use of maps in the exploration of geographic data*. Utrecht: The Royal Dutch Geographical Society/Faculty of Geosciences Utrecht University/International Institute for Geo-Information Science and Earth Observation. *Regional Studies*, **40**(8): 969-70.
3. **Griffin, A.L.** (2004). Review of O.A. Khan and R. Skinner, Eds. *Geographic Information Systems and Health Applications*. Hershey, PA: Idea Group Press. *Annals of the Association of American Geographers*. 94(1). 234-6.
4. **Griffin, A.L.** (2003). Review of P.B. Bloland and H.A. Williams. *Malaria Control During Mass Population Movements and Natural Disasters*. Washington, D.C.: National Academies Press. *Regional Studies*. 37(9). 983-4.

Conference Proceedings (non-refereed)

1. **Griffin, A. L.** (2005). "Can you see what I see? Helping individuals benefit from the insights of interdisciplinary collaboration." Proceedings of the International Cartographic Conference, A Coruña, Spain. 9-16 July 2005, (no page numbers).

2. **Griffin, A. L.** (2003). "An empirical study of interactive maps in the context of a geographical simulation model." *Proceedings of the International Cartography Association*, Durban, South Africa, 10-16 August 2003. p.358 - 364.
3. **Griffin, A.L.**, Smith, C. and J. Bornes. (1999). "Public land survey-derived geographic base layers in the Midwest: Focus on a large-scale Minnesota layer." *Proceedings of URISA 99*, Chicago, IL.
4. Harrower, M.A., **Griffin, A.L.**, and A.M. MacEachren. (1999). "Linear and cyclic temporal legends: Assessing the impact of legend design in geographic visualization." *Proceedings of the International Cartography Association*, Ottawa, Canada.

Distance Learning Course Content

1. **Griffin, A.L.**, Faith, S.P. and J.L. Sloan. (2004). Online text for "Cartography and Visualization", a course in the Penn State Professional Master's in GIS distance education program.

Other Publications:

1. **Griffin, A.L.** (2001). Cartographic design for: Atlas of Pennsylvania Workforce Development. Outreach Office of Marketing and Planning, The Pennsylvania State University.
2. **Griffin, A.L.** (1998). Translation from the German. An introduction to geoinformatics. By U. Streit, University of Muenster. <http://castafiore.uni-muenster.de/vorlesungen/Geoinformatics/index.html>.
3. **Griffin, A.L.** (1998). Translation from the German. Arcview online tutorial. By C. Uhlenkueken, University of Muenster. http://castafiore.uni-muenster.de/vorlesungen/av_tutor_e/index.html.
4. **Griffin, A.L.** (1997). Cartographic design for: A teacher's guide to public land and mineral ownership in Minnesota. Minnesota DNR.

7. Research and Travel Grants

Year	Agency	Amount \$	Title of Project
2009	UNSW Major Equipment and Infrastructure Investment Scheme	76,000	Setup and maintenance of an eye-tracking laboratory (with Hussein Abbass, Michael Barlow, Sameer Alam and Martin Copeland, co-CIs)
2009-11	DSA Scholarship Fund	60,000	Social-Ecological Intersections: A Spatial Approach to Understanding Bushfire Risk and Community Capacity for Resilience and Adaptation in the Sydney Metropolitan Area
2008-10	DSA Scholarship	60,000	Multi-agent spatial modeling of foot-and-

	Fund	(1 PhD student scholarship)	mouth disease
2006	UNSW Faculty Research Grants Program	\$7,000	Reaction time: Tracking chemicals over time and space to support occupational health and safety
2006	CSIRO	150,000	The landscape pathology of human health: contribution of neighbourhood pattern to childhood overweight and obesity (co-CI with Guy Barnett (CI), R.M. Beaty and M. Wake).
2005	UNSW Faculty Research Grants Program	18,500	Can you see what I see: Helping individuals benefit from the insights of interdisciplinary collaboration
2004-06	Sydney Olympic Park Authority	28,000	Comparative urban landscape ecology (Co-CI with R.M. Beaty, A. Huggett and M. Doherty)
2004-06	CSIRO	175,000	Urban landscapes as functioning ecosystems: interactions between urban pattern, public health, and biodiversity in Sydney (Co-CI with R.M. Beaty, A. Huggett and M. Doherty)
2003	U.S. National Committee to the International Cartographic Association	1,750	Travel to the 2003 International Cartographic Conference, Durban, South Africa
2002	GIScience 2002 Organizing Committee	750	Travel to GIScience 2002, Boulder, CO
2000	GeoComputation 2000 Organizing Committee	500	Travel to Geocomputation 2000 in Chatham, England
2000	Cartography Specialty Group, AAG, Master's Thesis Research Grant	500	Can normal-vision map readers accurately estimate quantitative information from haptic sensations?

8. Conference and Workshop Participation

- 2009 Analyzing sequential data from geovisualization user interactions, Annual Meeting of the Association of American Geographers, Las Vegas, NV, March 22-27.
- 2008 Signal detection theory as a method for understanding map-driven decision-making under conditions of uncertainty, NACIS XXVII, Missoula, MT, October 8-11.

- 2008 Clusters on the Move: Why animations are better for cluster detection, GIScience 2008, Park City, UT, September 23-26 (with Sara Fabrikant).
- 2008 Applying Sequence Alignment For Analyzing User Interactions with Geovisualizations, Autocarto 2008, Shepherdstown, WV, September 8-10.
- 2008 Signal detection theory and its potential application to geographic visualization. Annual meeting of the Association of American Geographers, Boston, MA, April 15-19.
- 2007 Mapping the sports geography of Australia: Reflections and results! NACIS Annual Meeting XXVI, St. Louis, USA, October 10-13.
- 2007 A methodology for exploring urban neighbourhood shapes and sizes. 15th European Colloquium on Theoretical and Quantitative Geography, Montreux, Switzerland, September 9-13 (with Arnaud Banos).
- 2007 The reflective student. International Society for the Scholarship of Teaching and Learning, Sydney, July 2-5.
- 2007 Experimenting with Active Learning in Geography: Dispelling the Myths that Perpetuate Resistance. Annual Meeting of the Association of American Geographers, San Francisco, CA, April 17-21 (with Regina Scheyvens, Christine Jocoy, Yan Liu and Michael Bradford).
- 2007 This Sporting Life...Students Mapping the Geography of Australian Sport. Annual Meeting of the Australian Map Circle, Canberra, February 11-14.
- 2007 Participant in the Australian Weather and Society – Integrated Studies (WAS*IS) Workshop, Mount Macedon, Victoria, January 27-February 1.
- 2006 Linkages between the urban environment and patterns of human physical activity in Sydney, Australia (poster). GeoHealth 2006, Nelson, NZ, November 27-December 1 (with Matt Beaty).
- 2006 Mapping the Sports Geography of Australia: Teaching Visual Communication through Atlas Page Design. North American Cartographic Information Society Annual Meeting XXV, Madison, WI, October 18-21.
- 2006 A GIS-based simulation model of Hantavirus seroprevalence in deer mice in the Western United States. International Geographical Union Meeting, Brisbane, Australia, July 3-7.
- 2006 Social-Ecological Classification for Stratifying Cities for Health-Environment Research. Annual meeting of the Association of American Geographers, Chicago, IL, March 7-11.
- 2005 Dasymetric mapping using satellite imagery as an ancillary data source. North American Cartographic Information Society Annual Meeting XXV, Salt Lake City, UT, October 12-15 (with Matt Beaty).
- 2005 Can you see what I see? Helping individuals benefit from the insights of interdisciplinary collaboration. International Cartography Conference, A Coruña, Spain, July 9-16.
- 2005 Characterising interactions among urban pattern, public health, and biodiversity in Sydney, Australia. Annual meeting of the Association of American Geographers, Denver, CO, April 5-9 (with Matt Beaty, Presenter).
- 2005 Modelling connections between climate and Hantavirus seroprevalence in deer mice in the western United States. Annual meeting of the Association of American Geographers, Denver, CO, April 5-9.
- 2004 How experts interact with geospatial data: Relationships between expert-user characteristics, geovisualization tool use and hypothesis generation. GIScience 2004, College Park, MD, October 20-23.

- 2004 Seeing clusters that move over space and time II: Comparing small multiples with animation. North American Cartographic Information Society Annual Meeting XXIV, Portland, ME, October 6-8 (with A.M. MacEachren, B. Li, and F. Hardisty).
- 2004 Simulating risk of an emerging infectious disease (Hantavirus Pulmonary Syndrome) with a process model implemented in a GIS. Annual Meeting of the Institute of Australian Geographers, Adelaide, Australia, April 13-16.
- 2004 Understanding how scientists use data-display devices for interactive computing with geographical models. Geovisualisation: EuroConference on Methods to Support Interaction in Geovisualization Environments. Kolymbari, Crete, Greece, March 13-18.
- 2003 Seeing clusters that move over space and time: A map animation experiment. North American Cartographic Information Society Annual Meeting XXIII, Jacksonville, FL, October 8-10 (with A.M. MacEachren, B. Li, F. Hardisty and B. Pacheco).
- 2003 An empirical study of interactive maps in the context of a geographical simulation model. International Cartography Conference, Durban, South Africa, August 10-16.
- 2003 A GIS implementation of a simulation model of Hantavirus Pulmonary Syndrome Risk. 10th International Medical Geography Symposium, Manchester, England, July 14-18.
- 2003 A cognitive science approach to studying the use of geographical simulation models. Annual Meeting of the Association of American Geographers, New Orleans, LA, March 4-8.
- 2002 An empirical study of hypothesis generation by domain experts using an interactive geographic visualization. North American Cartographic Information Society Annual Meeting XXII, Columbus, OH, October 9-11.
- 2002 An empirical investigation of expert use of interactive visual computing tools to manipulate a geographic simulation model. GIScience 2002, Boulder, CO, September 25-28 (with A.M. MacEachren).
- 2002 Simulating spillover of Hantavirus Pulmonary Syndrome in the western U.S. Annual Meeting of the Association of American Geographers, Los Angeles, CA, March 19-23.
- 2001 Feeling it out: The use of haptic visualization for exploratory geographical analysis. Annual Meeting of the Association of American Geographers, New York, NY, February 28-March 3.
- 2000 Can normal-vision map readers accurately estimate quantitative information from haptic sensations? North American Cartographic Information Society Annual Meeting XX, Knoxville, TN, October 11-13.
- 2000 Some factors affecting the performance of Bayesian network classifiers. GeoComputation 2000. University of Greenwich, Chatham, England, August 23-25.
- 1999 Feeling it out: The use of haptic visualization for exploratory geographical analysis. North American Cartographic Information Society Annual Meeting XIX, Williamsburg, VA, October 20-23.
- 1999 Public land survey-derived geographic base layers in the Midwest: Focus on a large-scale Minnesota layer. URISA '99, Chicago, IL, August 21-25 (with C. Smith and J. Bornes).

9. Other Presentations

Invited Research Presentations to Faculty-Student Colloquia and Professional Groups

- 2008 RMIT Advanced Cartography Course, 24 July
 2007 Helmholtz Institute, Leipzig, Germany, 4 December.
 2007 Laboratoire Image et Ville, University Louis-Pasteur, Strasbourg, France, 29 November.
 2006 Macalester College, Department of Geography, St. Paul, MN, USA, 13 October.
 2006 ANU Applied GIS class, 21 September.
 2006 Sixth Australasian Postgraduate Workshop on GISc: Social and Environmental Modelling, Kioloa, NSW, Australia, 28-31 August.
 2006 PEMS Seminar Series, May 22.
 2004 Flinders University, Adelaide, Australia, 7 December
 2004 Human-Computer Interactions Group Colloquia at Iowa State University, Ames IA, USA, 30 September.
 2004 School of Biological, Earth and Environmental Sciences Seminar Series at the University of New South Wales, Sydney, Australia. 3 June.
 2004 Fifth Australasian Postgraduate Workshop on GISc: Social and Environmental Modelling, Kioloa, NSW, Australia, 2-6 February.
 2003 Penn State Department of Geography Coffee Hour, University Park, USA, 12 December.
 2003 Penn State Chapter of Supporting Women in Geography (SWIG), University Park, USA, 28 April.

10. Service and Professional Membership

Service Activities

- 2009- Business Manager, Australia and New Zealand Map Society
 2008- Board Member, North American Cartographic Information Society
 2006 Convenor, 34th Annual Conference of the Australian Map Circle
 2004- Secretary, GIScience, Spatial Analysis and Modelling Study Group, Institute of Australian Geographers.
 2008- Member, School of PEMS research committee
 2005- 2006 Member, ADFA postgraduate coursework education committee
 2004- 2006 Member, School of PEMS undergraduate education committee.
 2006 Member, School of PEMS postgraduate coursework working party
 2005-2006 PEMS postgraduate coursework coordinator; Member, PEMS research Committee; Member, ADFA postgraduate coursework advisory committee
 1999 Graduate Student Representative, Department of Geography, Pennsylvania State University, University Park, PA, USA

Manuscript reviewer: *Guilford Press, Cartography and Geographic Information Science; American Journal for Preventive Medicine; Annals of the Association of American Geographers; Computers, Environment and Urban Systems; Cartographica; MODSIM; Professional Geographer; Environment and Planning B; International Journal of*

Geographic Information Science; International Journal of Health Geographics; Journal of Spatial Science, New Zealand Association for Research in Education, Cartographic Perspectives

Editorial Board Membership:

Cartographic Perspectives (2006-), Cartographica (2007-)

Society Memberships

North American Cartographic Information Society (NACIS)

Association of American Geographers (AAG)

Specialty Groups: GIS, Remote Sensing, Cartography, Medical Geography

American Congress of Surveying and Mapping (ACSM)

American Society for Photogrammetry and Remote Sensing (ASPRS)

Canadian Cartographic Association (CCA)

British Cartographic Society (BCS)

ICA Commission on Visualization and Virtual Environments, Corresponding Member

Institute of Australian Geographers (IAG)

Australian and New Zealand Map Society (ANZMS)

Higher Education Research and Development Society of Australasia (HERDSA)

11. References

Dr. Alan M. MacEachren (Advisor)
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