Diana Stuart Sinton

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Education and Credentials

June 2019	GIS Professional (GISP) Credential, GIS Certification Institute
June 1996	Ph.D., Geography, Department of Geosciences, Oregon State University, Oregon
	Dissertation: *Spatial and temporal patterns of windthrow in the Bull Run Watershed, Oregon*.
June 1992	M.S., Geography, Department of Geosciences, Oregon State University, Oregon
May 1988	B.A., *cum laude*, Religion, Middlebury College, Vermont

Professional Positions

July 2021 – present	Senior Research Fellow, University Consortium for Geographic Information Science (UCGIS). Co-PI for the TRELIS project for supporting academic women in leadership roles in the geospatial sciences; Co-lead of the Evaluation & Knowledge Transfer team of I-GUIDE (iguide.illinois.edu); Project Manager of the GIS&T Body of Knowledge (gistbok.ucgis.org).
July 2013 – June 2021	Executive Director, University Consortium for Geographic Information Science (UCGIS). Sole employee responsible for daily operations of this non-profit organization, founded in 1995 to support and promote research and education in the geospatial sciences in higher education.
Dec 2013 - present	Adjunct Associate Professor, Soil & Crop Science Section, School of Integrated Plant Sciences, College of Agricultural and Life Sciences, Cornell University, Ithaca, New York
July 2013 – June '17	Series Editor, SpatiaLABS, Esri, Redlands, California
April 2013 – Aug '15	Contributing Researcher, a *Watershed Based Approach to Food Security and Sustaining Biodiversity project*. Forest Stewardship Program, State and Private Forestry, Yap State Department of Resources and Development, Yap, Micronesia. Funded through the Institute of Pacific Islands Forestry, USDA Forest Service, Hilo, Hawaii. 2013-2015.
Aug. '07 – July '13	Director of Spatial Curriculum and Research, University of Redlands. Redlands, California. Faculty rank of Associate Professor, 2009-2013; Assistant Professor, 2007-2009.
Sept. '03 – Aug. '07	Chief Program Officer and GIS Program Director, National Institute for Technology and Liberal Education. Middlebury College, Middlebury, Vermont
January – June '03	International Research Fellow, Agricultural Plant Physiology and Ecology Research Institute. College of Agronomy, University of Buenos Aires, Argentina

Aug. '97 – June '03	Assistant Professor of Environmental Studies and Geography, and Director, Environmental Studies Geographic Information Systems Laboratory. Division of Environmental Studies, Alfred University, Alfred, New York
January - August '97	GIS Analyst, National Marine Fisheries Service. National Oceanic and Atmospheric Administration, Narragansett, Rhode Island
January – June '97	Adjunct Assistant Professor. Department of Natural Resources Science. University of Rhode Island, Kingston, Rhode Island

Honors & Achievements

2019	Roster, Fulbright Specialist Program (2019-2024)
2016	Journal of Geography Award for Best Article, National Council for Geographic Education
2016	Education Award, University Consortium for Geographic Information Science (UCGIS)
2013	Meid Mentor, Marymount College, Palos Verdes, California
2009	SPLINT (Spatial Literacy in Teaching) Fellow, Centres for Excellence in Teaching & Learning (University of Leicester, England)
2003	Ruth Berger Rubenstein Memorial Award for Excellence in Teaching, Alfred University
2002	International Research Fellowship, National Science Foundation
1996	Parenzin Research Award, Department of Geosciences, Oregon State University

Grants (since 2000)

2021   *HDR Institute: Geospatial Understanding through an Integrative Discovery Environment (IGUIDE)*. National Science Foundation #2118329, $15,000,000. Subaward to UCGIS under PI Shaowen Wang (University of Illinois Urbana-Champaign).

2019   *Convergence Accelerator Phase I (RAISE): Open Knowledge Network for Spatial Decision Support*, National Science Foundation #1937908, $999,739. Subaward to UCGIS under PI Sean Gordon (Portland State University).

2017   *TRELIS-GS: Training and Retaining Leaders in STEM – Geospatial Sciences*, National Science Foundation #1660400, $420,194. Together with Kate Beard (University of Maine) and Laxmi Ramasubramanian (San Jose State University).

2015   *Communicating Uncertainty via Scientific Illustrations*, Visionary Grant from the Gordon Research Conferences, $3,450. Together with J. Christiansen (Scientific American).

2011   *Visualizing Flow and Movement in the Humanities*, National Endowment for the Humanities, $24,956.

2009   *Learning Spatially (LENS): Infusing Spatial Thinking into Undergraduate Education*, W. M. Keck Foundation, $250,000.

2008   *Increased Effectiveness of Field-Based Courses Through Portable Technology*. Technology for Teaching Grant. Hewlett-Packard. Submitted with W. McIntyre and C. Sinton, University of Redlands. $20,000.

2002   *Understanding the invasion of exotic woody species and native shrubs into a protected area: a case study of El Palmar National Park, Argentina*. International Research Fellowship, National Science Foundation*,* $75,000.

2001   Establishment of an Undergraduate Research Fund. Donaldson Foundation, $25,000. Submitted with M. Hluchy, Alfred University.

2001   Steps to Integrate GIS into the County Government. Allegany County Board of Legislators*,* Allegany County, New York, $14,500 (funding to support three students for summer work).

2000   Geographic Information Systems Curriculum for Grades 7-12. Office of Curriculum, Instruction and Assessment, Department of Education, New York State*,* $34,763. Submitted with G. Niles, Alfred University.

2000   Integrating Spatial Analyses into an Environmental Studies Curriculum. National Science Foundation, Division of Undergraduate Education: Course, Curriculum and Laboratory Improvement Program, $57,794. Submitted with M. Hluchy and G. Godshalk, Alfred University.

2000   Enriching the Geospatial Technology Resources Available for Students in Alfred, New York. Geographic Information Systems / Spatial Information Group, Rochester, New York, $500. Submitted with A. McLaughlin, SUNY Alfred.

Publications
(* = undergraduate student, # = graduate student)
Journal Articles

Du, J., Wang, S., Ye, X., **Sinton, D. S.**, and Kemp, K. (2021). GIS-KG: building a large-scale hierarchical knowledge graph for geographic information science. International Journal of Geographic Information Science. DOI: 10.1080/13658816.2021.2005795.

Blanford, J., Bowlick, F., Gidudu, A., Gould, M., Griffin, A., Kar, B., Kemp, K., de Roiste, M., de Sabbata, S., **Sinton, D**., Strobl, J., Tate, N., Toppen, F., and Unwin, D. (2021). Lockdown lessons: an international conversation on resilient GI Science teaching. *Journal of Geography in Higher Education* 46(1). DOI: 10.1080/03098265.2021.1986687.

Wikle, T. and **Sinton, D. S.** (2021). Where Have the Cartographers Gone? The Status of Cartography Instruction within U.S. Geography Departments and Programs. *Cartography and Geographic Information Science*. 48:2, 140-150, DOI: 10.1080/15230406.2020.1852971

Wikle, T. and **Sinton, D. S.** (2020). The Administration of Academic GIS Certificates: A Survey of Program Coordinators. *Transactions in GIS*. 24(6): 1681-1694. DOI: 10.1111/tgis.12677.

Sinton, D. S. and Kerski, J. J. (2020). GIS&T Education and Training. The Geographic Information Science & Technology Body of Knowledge (1st Quarter 2020 Edition), John P. Wilson (ed.). DOI: 10.22224/gistbok/2020.1.4

Diana Sinton, January 2022

Dony, C.C., Nara, A., Amatulli, G., Delmelle, E.M., Tateosian, L., Rey, S., and **Sinton, D.S.** (2019) Computational Thinking in U.S. College Geography: An Initial Education Research Agenda. *Research in Geographic Education*, 21(2): 39-54.

Sinton, D. S. (2019). Observations on the Gaps and Opportunities for Geocomputation. In *Proceedings of GeoEd'19:1st ACM SIGSPATIAL International Workshop on Geo-computational Thinking in Education Proceedings. ACM, Chicago, IL, USA, 4 pages*. DOI: 10.1145/3356393.3365370.

Sinton, D. S. (2016). Spatial Thinking and GIS. In H. Burte, T. Kauppinen, & M. Hegarty (Eds.), *Proceedings of the Workshop on Teaching Spatial Thinking from Interdisciplinary Perspectives (TSTIP 2015) at COSIT 2015 in Santa Fe, NM.* CEUR-WS.org, online: ceur-ws.org/Vol-1557/.

Baker, T.R., Battersby, S., Bednarz, S.W., Bodzin, A., Kolvoord B., Moore, S., **Sinton, D.** & Uttal, D. (2015). A Research Agenda for Geospatial Technologies and Learning, *Journal of Geography*, 114:3, 118-130, DOI: 10.1080/00221341.2014.950684. **Winner of the 2016 Journal of Geography Award from the National Council for Geographic Information.**

King, A. M., Larsen, L. I. and **Sinton, D. S.** (2012). The Spatially Interactive Literature System Study Tool: A GIS Classroom Tool for Interpreting History. *International Journal of Applied Geospatial Research,* 3(3): 70-85. DOI: 10.4018/jagr.2012070105.

Howarth, J. T. and **Sinton, D. S.** (2011). Sequencing spatial concepts in problem-based GIS instruction. International Conference: Spatial Thinking and Geographic Information Science. *Procedia – Social and Behavioral Sciences* 21:253-259. DOI: 10.1016/j.sbspro.2011.07.042.

Sinton, D. S. (2009). Roles for GIS within Higher Education. *Journal of Geography in Higher Education*, 33(1): S7-S16. DOI: 10.1080/03098260903034046.

Sinton, D. S. and Huber, W. (2007). Mapping polka and its ethnic heritage in the United States. *Journal of Geography*, 106: 41-47. DOI: 10.1080/00221340701487913.

Sinton, D. S. and Jones, J.A. (2002). Extreme winds and windthrow in the western Columbia River Gorge. *Northwest Science,* 76(2): 173-182.

Sinton, D. S., Jones, J. A., Swanson, F. J., and Ohmann, J. (2000). Forest composition, structure, and disturbance by wind in the Bull Run basin, Oregon. *Ecology*, 81(9): 2539-2556. DOI: 10.1890/0012-9658(2000)081[2539:WDFCAS]2.0.CO;2.

Books

Sinton, D. S., Kolvoord, B., Gersmehl, P., Bednarz, S. and Uttal, D. (2013). *The People's Guide to Spatial Thinking*. Washington, DC: National Council for Geographic Education.

Sinton, D. S. and Lund, J. J. (Eds.) (2006). *Understanding Place: GIS and Mapping across the Curriculum.* Redlands, CA: ESRI Press.

Book Chapters

Sinton, D. S. (2020). Mapping. *Digital Pedagogy in the Humanities*. Eds. Rebecca Frost Davis, Matthew K. Gold, Katherine D. Harris, and Jentery Sayers. Modern Language Association. https://digitalpedagogy.hcommons.org/

Sinton, D. S. (2017). Critical Spatial Thinking, in Richardson, D., Castree, D. N., Goodchild, M., Liu W., Kobayashi, A., & R. Marston, R. (Eds.) *The International Encyclopedia of Geography: People, the Earth, Environment, and Technology*. Hoboken, NJ: Wiley/AAG. DOI: 10.1002/9781118786352.wbieg0706.

Sinton, D. S. (2014). Spatial Learning in Higher Education, in Montello, D. R, Grossner, K., & Janelle, D. G. (Eds.), *Space in mind: Concepts for spatial learning and education*. Cambridge, MA: MIT Press: 219-238.

Sinton, D. S. (2012). Making the case for GIS in higher education, in Unwin, D., Tate, N., Foote, K. and DiBiase, D. (eds.), in *Teaching Geographic Information Science and Technology in Higher Education.* London: John Wiley & Sons (UK): 17-36.

Sinton, D. S. (2011). Spatial Thinking, in Stoltman, J. (ed.), *21st Century Geography: A Reference Handbook.* Thousand Oaks, CA: SAGE Publications: 734-744.

Sinton, D. S. and Schultz, R. (2008). GIS and Mapping Applications for Reasoning and Critical Thinking about the Environment and Society, in M. N. Solem and K. E. Foote (eds.), *Teaching College Geography: A Practical Guide for Graduate Students and Early Career Faculty.* Upper Saddle River, NJ: Prentice-Hall: 69-80.

Lund, J. J. and **Sinton, D. S.** (2006). Critical and creative visual thinking, in D. Sinton and J. Lund (eds.), *Understanding Place: GIS and Mapping Across the Curriculum*. Redlands, CA: ESRI Press: 1-18.

Sinton, D. S. and Bednarz, S. W. (2006). About that G in GIS, in Sinton, D. and J. Lund (eds.), *Understanding Place: GIS and Mapping across the Curriculum.* Redlands, CA: ESRI Press: 19-34.

Editorials

Mennis, J., Kemp, K., **Sinton, D**., Read, J., and Shaw, S-L. (2021). UCGIS at 25. *Transactions in GIS*. 10.1111/tgis.12856.

Giordano, A., Shaw, S.L., and **Sinton, D**. (2020). Guest Editors' Introduction: The Geospatial Humanities: Transdisciplinary Opportunities. *International Journal of Humanities and Arts Computing*. 14(1-2): 1-5. DOI: 10.3366/ijhac.2020.0241.

Sinton, D., Freundschuh, S., and Chrisman, N. (2019). Introduction to special issue on frontiers of geospatial data science from the joint UCGIS symposium / Autocarto 2018 conference. Cartography and Geographic Information Science, 46(1): 1. DOI: 10.1080/15230406.2019.1524665.

Editorial Production

Steinitz, C. (2012). *A Framework for Geodesign: Changing Geography by Design*. Redlands, CA: Esri Press.

Other Publications (selected ones since 2010)

Sinton, D. S. Regular writer for articles at *Directions Magazine*. Published collection available online. February 2015 – 2019.

Diana Sinton, January 2022

Giordano, A., Kemp K., and **Sinton, D.** (2019). Report on UCGIS Activities, 2018 and 2019. US National Report (US National Committee for the International Cartographic Association) (July 2019), accessed September 10, 2019, https://cartogis.org/usnc-ica/us-national-report/.

Freundschuh, S. M., **Sinton, D.S**., and Smith, C. (Eds.), (2018). *Second Report Card on the U. S. National Spatial Data Infrastructure*, Compiled by the Coalition of Geospatial Organizations (COGO). December.

Sinton, D. S. (2011). A Spatial Literacy Initiative in Higher Education. *ArcNews* 32(4): 36-37. http://www.esri.com/news/arcnews/winter1011articles/a-spatial-literacy.html.

Invited Talks & Conference Presentations
Invited Talks (selected ones since 2010)

2021   *Teaching Ethics in the use of GIS and Spatial Data*. Ethics in Geographic Information, Symposium and Workshop. United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) Academic Network Americas (ANA). March.

2021   *Spatial Thinking for Everyone: Geographic Information Systems in Supporting Learning Across the Humanities and Social Sciences*. Live lecture recorded online for their ThinkSpatialUL Seminar Series. University of Limerick, Ireland. January.

2020   *Linking Spatial Questions and Digital Technologies to Understand Geographic Patterns*. Live lecture recorded online for the GeoEducation Collection. The Geographical Association, United Kingdom. November.

2019   *Directions and Trends in Geospatial Curricula*. Department of Geography Colloquium. Syracuse University, Syracuse, New York. September.

2019   *Internal & External Forces Influencing GIS&T in Higher Education Today, Or, You're Not the Boss of Me.* Journal of Geography in Higher Education Invited Lecture, American Association of Geographers Conference, Washington DC. April.

2018   *Strategic Bridge Building via Communication*. Panel on Geography, Civic Engagement, and the Future of Data Science. Illuminating Space and Time in Data Science, Center for Geographic Analysis, Harvard University, Cambridge, Massachusetts, April.

2018   *Teaching, Learning, and Communication within the Context of GIS&T*. Transactions in GIS Plenary Lecture, American Association of Geographers Conference, New Orleans, Louisiana. April.

2018   *Evolving Roles for GIS in Higher Education*. Women in Technology Seminar, Yale University, New Haven, Connecticut. January.

2015   *Spatial Reasoning and STEM Learning*. Department of Geography Seminar, Texas A&M University, College Station, Texas. October.

2015   *Spatial Thinking via Geography and GIScience*. Pre-conference workshop on Teaching Spatial Thinking through Multiple Perspectives at COSIT XII, Santa Fe, New Mexico. October.

2015   *Learning through Geospatial Analytics*. Geospatial Forum, Center for Geospatial Analytics, North Carolina State University, Raleigh, North Carolina. September.

2015   *Why Spatial Thinking Underlies Visual Thinking*. Plenary Presentation, Visualization in Science and Education, Gordon Research Conference, Bates College, Lewiston, Maine. August.

2014   *Building the next Generation of Knowledge about Geospatial Technologies and Learning*. Keynote Presentation, GI-Forum, University of Salzburg, Salzburg, Austria. July.

2014   *New Ways to Map and Be Mapped*. Wesleyan University, Middletown, Connecticut. April.

2013   Maps and Spatial Perspectives. Mapping Worlds Workshop, University of Vermont, Burlington, Vermont. August.

2013   *Geospatial Thinking to Reason and Communicate*. Meid Visiting Mentor Program, Marymount College, Palos Verdes, California. March.

2012   *Geography and GIS Education in Higher Education*. GIS and Spatial Thinking in Higher Education, Bucknell University, Lewisburg, Pennsylvania. November.

2012   *A Few Things to Know about Geography and GIS Education in Higher Education*. New York State Geospatial Summit, Skaneateles, New York. October.

2012   *Digital Maps in Scholarship and Publishing*. Digital Humanities Initiative, Hamilton College, Clinton, New York. February.

2011   *Enhancing Learning and Scholarship with Mapping Technologies*. Center for New Designs in Learning and Scholarship, Georgetown University, Washington, DC. November.

2011   *Maps, Metaphors, Analogies and the Next Generation of GIS & Humanities Questions*. Mapping Place: GIS and Humanities Conference. Interdisciplinary Humanities Center, UC Santa Barbara, Santa Barbara, California. February.

Conference Presentations (refereed abstracts) (selected ones since 2000)

2013   *Students Becoming Spatially Informed Citizens?* National Council for Geographic Education, Denver, Colorado. August.

2012   *Education for Spatial Citizenship*. National Council for Geographic Education, San Marcos, Texas. October.

2012   *Building a Spatial Literacy Program in Teacher Education*. International Geographical Congress, Cologne, Germany. August.

2012   *On-line Geospatial Learning: Insights Gained and Lessons Learned*. Esri GIS Educational Conference, San Diego, California. July. Together with K. Lukens.

2012   *Mapping People Visual Library Catalog*. University Consortium for Geographic Information Science, Washington, DC. May.

2010   *Activities to Promote and Develop Spatial Literacy*. National Council for Geographic Education Annual Conference, Savannah, Georgia. October.

2009   *Teaching Spatial Thinking and its Implications for Teaching GIS*. ESRI's Education User's Conference. San Diego, California. July.

2008   *Spatial Reasoning and Geographic Thought at the University of Redlands*. ESRI's Education User's Conference. San Diego, California. July.

2008   *Integration of Engineering and Science with the Liberal Arts: Learning from Each Other*. Association of American Colleges and Universities Annual Meeting. Washington D.C. January.

2007   *Active Learning in Liberal Education with Geographic Information Systems (GIS) Technologies*. American Association of Colleges & Universities (AAC&U) Annual Conference. New Orleans, Louisiana. January. Together with M. Baber

2005   *Approaches for Integrating GIS on College Campuses*. Northeast Regional Computing Program (NERCOMP). Worcester, Massachusetts. April.

2004   *Teaching and Learning with GIS in the Liberal Arts*. National Council for Geographic Education, Annual Meeting. Kansas City, Missouri. October.

2002   *Exploring wind resources in Allegany County, New York*. 18th Annual New York State GIS Conference. Liverpool, New York. October. Together with C. DeMay*

2001   *The Influence of Settlement Patterns, Agriculture and Geography on Forest Patterns in Allegany County, New York*. American Society for Environmental History Annual Conference. Durham, North Carolina. April. Together with G. Clarke*

Professional Honors & Service
Advisory Boards

Diana Sinton, January 2022

- *Collaborative Research: CyberTraining: CIU: Hour of Cyberinfrastructure: Developing Cyber Literacy for Geographic Information Science*. Eric Shook (PI), University of Minnesota. NSF Grant #1829708. 2018-2021.
- *Center for Geospatial Analytics*, North Carolina State University, Raleigh, North Carolina. 2018-present.
- *Exploring Links between STEM Success and Spatial Skills: Undergraduate GIS Courses and a Spatial Turn of Mind*. Nora Newcombe (PI), Temple University. NSF Grant #1660966, 2017 – 2020.
- *Certification Governance Board,* US Geospatial Intelligence Foundation. 2015 – 2020.
- *Collaborative Research: Cognitive and Neural Indicators of School-based Improvement in Spatial Problem Solving.* Robert Kolvoord (PI), James Madison University. NSF Grant #1420600, 2015-2018.
- Esri Education Advisory Board, May 2012 - June 2014.
- *GeoGames - a virtual simulation workbench for teaching and learning through a real-world spatial perspective.* Ola Ahlqvist (PI), The Ohio State University. NSF Grant #1124037, #1320259, 2011 – 2015.

Invited Memberships
- Geography Commission, United States National Section of the Pan American Institute of Geography and History (PAIGH), Organization of American States. June 2012 – present.
- *European Spatial Citizenship Project (SPACIT)*. Comenius Multilateral Project, European Commission, on behalf of the National Council of Geographic Education, 2012 – 2014.
- Geography Education Research Committee (GERC), *Establishing a Roadmap for Large-Scale Improvement of K-12 Education in the Geographical Sciences*. DRL – DR-K12 Resources and Tools, NSF Award #1049437, 2010-2012.

Professional Volunteer Activities
- 2016   Esri Education Ambassador, Belize City, Belize.
- 2011 – 2013 Co-Coordinator, Analysis Team, Standby Task Force, Crisis Mapping. Libya Deployment, 2011.
- 2006   GIS Corps, Medical Mission Exchange deployment.

Elected Memberships
- Research Committee, National Council for Geographic Education, 2009-2011.

External Evaluator
- *A New Collaborative Model for Geospatial Technology Education and Workforce Studies in a Rural Region*. Tora Johnson (PI), University of Maine, Machias. NSF Grant #0802417, 2008-2011.

Editorial Boards
- Journal of Geography in Higher Education (2012 – present)
- Spatial Humanities Step-by-Step, Univ. of Virginia, http://spatial.scholarslab.org

Conferences Organized
- Cornell University Geospatial Forum (CUGEO), Ithaca, NY, October 2014; October 2015; November 2019.
- Spatial Thinking across the College Curriculum, Santa Barbara, CA, December 2012
- Mapping People Symposium, Redlands, CA, October 2012
- LENS Institute: Mapping Communities, University of Redlands, June 2012
- LENS Institute: Mapping Migrations, University of Redlands, June 2011
- LENS Institute: Mapping People, University of Redlands, June 2010
- Geodesign Summit, Esri, Redlands, CA, January 2010, January 2011

Conference Sessions Organized
- Emerging Ideas in GIS Instruction. Association of American Geographers, Seattle, WA, 2010.
- Diverse Approaches and Strategies for Spatial Thinking. Association of American Geographers, Washington DC, 2010.
- Teaching and Learning GIS: Issues of Spatial Thinking, Educational Frameworks, and Student Needs and Abilities. Association of American Geographers, Las Vegas, NV, 2009.

Journal Reviewer

> Journal of Geography in Higher Education; Journal of Geography; Transactions in GIS; International Journal of Geomatics and Spatial Analysis; The Professional Geographer; Landscape Ecology

Outreach Talks

- UCGIS, the GIS&T Body of Knowledge, and Future Directions. Graduate Seminar, School of Geographical Sciences and Urban Planning, Arizona State University, January 2022.
- SpatiaLABS as Component of Servant Leadership. Plenary, Esri GIS Educational Conference, San Diego, California, July 2015.
- Open Educational Resources Presentation. Plenary, Esri GIS Educational Conference, San Diego, California, July 2012.
- Over 40 presentations to the general public and educational communities about spatial thinking, GIS, and its applications, 1998 – present.

Teaching Experience

Cornell University

- Introduction to Mapping & Spatial Analysis with GIS, PLSCS 2200
- Geographic Information Systems, PLSCS 4200
- Spatial Modeling and Analysis, PLSCS/NTRS 6200 (with D. Rossiter)

University of Redlands

- Foundations of Spatial Thinking, EDUC 616 (traditional and online)
- Fundamentals of Geographic Information Science, GIS 611 (co-taught with other MS GIS faculty)
- Spatial Analysis and GIS, EVST 110
- First Year Seminar, New Ways to Map a Changing World
- Understanding Spatial Data Uncertainty workshop, GIS 650
- Territorial Politics, GOVT 362 (with S. Wuhs)
- Mapping People, Mapping Places, SOAN 365 (with W. Bernardini)

Alfred University

- Introduction to GIS, ENVS 220
- Advanced GIS Applications, ENVS 320
- Principles of Geography, ENVS 103
- Environmental History, ENVS 204
- Environmental Data Analysis, ENVS 205
- Environmental Research Procedures, ENVS 240/241
- Natural Resources Management, ENVS 415
- Research Planning, ENVS 440
- Senior Seminar, ENVS 490
- Senior Research Project, ENVS 499

Workshops Designed, Organized and Taught
University of Redlands

- *Visualizing Flow & Movement in the Humanities.* Two days. October 2012.
- *Short Spring Spatial Workshops*. Three days. April 2010; April 2011; May 2012.
- *Spatial Statistics.* Two days. May 2011. Organized with Esri.
- *Mini-Mapping workshops*. One hour.
    - *Introduction to Spatial Learning*: September 2009; September 2008; October 2007

- *Virtual Globes: Basics and Advanced*: October 2009; March 2009; January 2009; February 2008; January 2008
- *Map Mashups:* April 2009; November 2008; December 2007
- *Working with Census Data*: October 2008; April 2008; November 2007
- *Web Mapping Applications*: October 2009; April 2008
- *Basics of GIS with ArcMap:* November 2009 (with D. Smith); February 2009

National Institute for Technology & Liberal Education (NITLE)

- *Spatial Statistics*. Five days. Designed and co-taught with D. Unwin and B. Huber. Wheaton College, Norton, Massachusetts. May 2007.
- *iGIS, Introducing GIS.* Three days. Lawrence University, Appleton, WI, December 2005; Willamette University, Salem, OR, January 2006; Austin College, Sherman, TX, January 2006; Birmingham-Southern College, Birmingham, AL, May 2006; Pomona College, Claremont, CA, June 2006. Beloit College, Beloit, WI, December 2006; Lewis & Clark College, Portland, OR, January 2007.
- *Web-Mapping: Exploring Internet-Based Applications as Teaching and Learning Tools*. Four days. Pomona College, Claremont, CA, June 2006.
- *Managing and Supporting GIS.* Three days. Trinity University, San Antonio, TX, March 2006.
- *Teaching and Learning with GIS.* Five days. Middlebury College, Middlebury, VT, June 2004; June 2005.
- *GIS Across the Curriculum*. Five days. Middlebury College, Middlebury, VT, June 2004, June 2005; College of Wooster, Wooster, OH, January 2004; Furman University, Greenville, SC, January 2005; University of Puget Sound, Tacoma, WA, July 2005.
- *GIS for Urban Studies*. Three days. Trinity College, Hartford, CT, June 2005.
- *GIS for Landscape Ecology*. Four days. University of the South, Sewanee, TN, May 2005.
- *Student-Immersion, Faculty-Focus*. Twelve days. Middlebury College, VT, June 2005.
- *Teaching with GIS in the Liberal Arts.* Seven days. Colorado College, Colorado Springs, CO, August 2004.

Other Workshops

- *Intro to Mapping and GIS for the Citrus Valley High School*, Redlands Unified School District, Redlands, CA. Three days. Designed and co-taught with D. Smith and C. Fitzpatrick, May 2009.
- *EDGE Workshop: GIS and Mapping Technologies: Applications for Reasoning and Critical Thinking.* Three hours. Association of American Geographers Conference, Las Vegas, NV. Designed and co-taught with R. Schultz. March 2009.
- *GIS and Critical Thinking.* One day. National Geospatial Intelligence Agency, Fort Belvoir, VA. Designed and co-taught with M. Goodchild. July 2008.
- *Geographic Information Systems Technology for Grades 7-12*. Two-day workshop for fifteen middle-school teachers. Alfred University, Alfred, NY, March 2001.

Diana Sinton, January 2022