Joseph J. Kerski

Geographer | Educator
GIS Professional
Colorado USA

Analyzing change over space and time across multiple fields of study.

Start here:
https://www.josephkerski.com
Wikipedia:
https://en.wikipedia.org/wiki/Joseph_Kerski
Twitter/X: twitter.com/josephkerski
LinkedIn: http://www.linkedin.com/in/josephkerski
Instagram:
https://www.instagram.com/josephkerski/?hl=en
Our Earth YouTube channel: 8,500 videos:
https://esriurl.com/ourearth

joseph@josephkerski.com
My CV as a StoryMap – **click here**.
Mobile 303-625-3925

Joseph Kerski
SPATIAL THINKING

Career Goal

I seek to apply the geographic perspective and Geographic Information Sciences and Technology (GIS&T) to advance spatial, holistic, and critical thinking and the application of geotechnology in all academic disciplines and across all levels of education from K-12 through university and lifelong learning. To achieve this I create educational partnerships, conduct educational research, author books and articles, teach face to face and online hands-on courses, develop curricula, and support educators and students.

Focus Areas

• Geography • STEM • Education • Environment • GIS • Community Science

Summary

My 40-year career has **focused** on the advancement of research, curriculum development, and partnerships in geography, STEM, environmental sciences, and geotechnologies in education and society at all levels, internationally, to benefit people and the planet.

• International Speaker: 20 countries (F2F) and 20 additional (virtual).
• Created > 8,500 instructional videos, 12 books, 50 book chapters, 100 articles, 5,500 blog essays, and over 2,750 curricular items.
• Served in key roles in each of 5 major sectors of society—government, nonprofit, private industry, independent consultant, and academia.
• Awarded lifetime achievement by UCGIS (2021) and GeoTech Center (2016).

Education

Doctor of Philosophy: Geography, University of Colorado, 2000.

Dissertation Title: The Implementation and Effectiveness of Geographic Information System Technology and Methods in Secondary Education.
Emphases: Geography Education, GIS, Population Geography. GPA=4.0
Coursework Included: Geographic Teaching Materials, Research in Geographic Education, Disciplined Inquiry, History and Nature of Geography, Population Geography, Seminar in Geographic Information Systems, Internet in K-12 Education, Mathematical Demography, Web authoring independent study for Colorado Geographic Alliance, Quantitative Methods in Geography.

Master of Arts: Geography, University of Kansas, 1993.
Thesis title: The Impact of the Bruce R. Watkins Roadway Project on Neighborhoods in Kansas City, Missouri. Emphases: Geographic Information Systems, Population Geography. GPA=4.0. Coursework Included: *GIS, Research Methods, Quantitative Methods, Historical Geography.*

Bachelor of Arts, with Distinction: Geography, University of Colorado, 1984.
Emphases: Cartography, Computer Cartography. GPA=3.8. *Coursework Included:* Physical, cultural, regional, and historical geography, cartography, computer cartography, map use, Macro and microeconomics, environmental design, accounting, Spanish.

Ph.D., Masters', and Bachelors' Students Supervised

- [1] Jonathan Wessell, University of Nebraska: Experiential Learning in Geography. 2026-2017.
- [2] Steven Melitz, Minnesota State University: *Is America's Youth Prepared for the Future? The Need to Implement Geographic Information Science into the American Education System,* 2015-2017.
- [3] Madison Grace Vorva, Pomona College: *Using Geospatial Analysis for High School Environmental Science Education: A Case Study of the Jane Goodall Institute Community-Centered Conservation Approach,* 2016.
- [4] Jessie Hong, University of Colorado: *Web-based GIS for Middle School Teachers: Using Online Mapping Applications to Promote Teacher Adoption,* 2009-2012.
- [5] Jeff Crews, University of Montana, *Impacts of a Teacher Geospatial Technologies Professional Development Project on Student Spatial Literacy Skills and Interests in Sci & Tech Gr 5-12 Classrooms Across Montana.* 2006-2008.
- [6] Shannon White, North Carolina State University, *GIS and Instructional Technology Diffusion: K-12 Student and Educator Conceptualizations. 2004-2005.*

Additional Coursework and Training:

Education and Human Relations: Time Management, Supervision, Training Subject Matter Experts, Negotiation Skills. *GIS:* ArcGIS Pro, ArcGIS Online, ArcGIS Insights, ArcGIS Business Analyst Web App, Idrisi, Maptitude, Geomedia, MapInfo, Image Analysis, Spatial & 3D Analyst, C Language, AML, Avenue, ArcGIS Server. *Other:* Web authoring, HTML, Physical Geology, Spanish, MSOffice, Graphics programs.

Work Experience

Owner
Joseph Kerski LLC
2025-present

Joseph Kerski
SPATIAL THINKING

(1) **Thought Leadership:** Innovate and share leading-edge thought and ideas to foster and support GIS in teaching and learning at all levels and forms of education throughout the world. (2) **Curriculum Development:** Create educational materials that use online and desktop GIS technologies and methods for use in education and in other market sectors; (3) **Partnerships:** Foster educational partnerships among government, industry, professional societies, nonprofit organizations, academia, K-12 education; (4) **Scholarship:** Write and edit textbooks, articles, book reviews, flyers, posters to support and promote GIS education; (5) **Teaching:** Create curricular materials, develop and conduct numerous workshops and courses annually on digital and analog geospatial applications, products, and services to diverse audiences; (6) **Research:** Conduct research on teaching and learning in geography and using geotechnologies; (7) **Communications:** Create oral and written communication elements.

Education Manager
Environmental Systems Research Institute

18 years
2006-2024

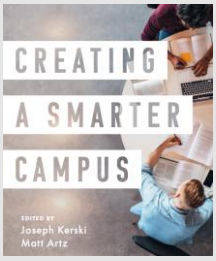
(1) **Thought Leadership:** Support GIS in teaching and learning. (2) **Curriculum Development:** Create educational materials that use GIS technologies and methods for use in education and in other market sectors; (3) **Partnerships:** Foster educational partnerships among government, industry, professional societies, nonprofit organizations, academia, K-12 education; (4) **Scholarship:** Write and edit textbooks,

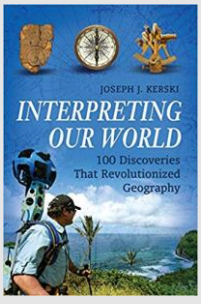
	esri THE SCIENCE OF WHERE	articles, book reviews, flyers, posters to support and promote GIS education; (5) **Teaching:** Create curricular materials, develop and conduct numerous workshops and courses annually on digital and analog geospatial applications, products, and services to diverse audiences; (6) **Research:** Conduct research on teaching and learning in geography and using geotechnologies; (7) **Communications:** Create oral and written communication elements; plan and staff Esri information exhibits at conferences.
	Geographer and Cartographer *US Geological Survey* *17 years* *1989-2006* USGS science for a changing world	(1) Foster educational partnerships among government, industry, professional societies, nonprofit organizations, academia, K-12 education; (2) Write and edit textbooks, articles, book reviews, flyers, posters to promote science and geography and geotechnology education; (3) Create curricular materials, develop and conduct 40 workshops and courses annually on digital and analog geospatial applications, products, and services to a diversity of audiences; (4) Conduct research on teaching and learning in geography and using geotechnologies; (5) Maintain education.usgs.gov and other web resources; create educational multimedia, write press releases and articles, operate USGS information exhibits at 20 conferences annually; (6) Create applications, databases, and maps to support the National Spatial Data Infrastructure for scientific projects using technical standards and computer procedures; conduct courses in GIS, spatial analysis, using geospatial data, and developing web resources.
	Supervisory Geographer *US Bureau of the Census* *4 years* *1985-1989* United States® Census Bureau	Conducted geography program training for wide variety of audiences, including planners and researchers; trained and supervised 120 staffpersons in computer mapping and geocoding; coordinated geography and statistical area programs with state, local and tribal governments and other data users; developed computer databases to control TIGER map production and geographic programs; conducted research and development in digital cartography.
	Cartographic Assistant *NOAA* *1984*	Programmed and created maps, charts, and data to support the geographic perspective and mission of NOAA's National Geophysical Data Center.
Teaching Experience	*Instructor – Auburn University 2026-present*	Create and instruct online Global Geography course incorporating active learning, web mapping tools, and innovative methods across many themes and scales.
	Instructor – Colorado School of Mines 2026-present	Create and instruct GIS Project Design course for the Colorado School of Mines graduate students.
	Instructor - Harrisburg Area Community College 2021-present	Create and instruct Cartographic Design course for Harrisburg Area Community College.
	Assistant Professor *University of Minnesota*	Create, revise, and instruct Mapping Our World course for the

2021-present	University of Minnesota and advise faculty on program.
Advisor and Instructor *Au Sable Institute* *2021-present*	Create and instruct environmental GIS course for institute. Advise faculty on integrating GIS into environmental science.
Adjunct Instructor *University of Denver* *2000-present*	Teach GIS theory and applications and public domain data courses through the University of Denver's GIS program. Create and implement all exercises, exams, and curriculum.
Instructor *University of Denver* *OLLI Lifelong Learning Program*	Create and instruct mapping and society courses for the general public—for a wide variety of ages, interests, needs, and backgrounds.
Advisor and Instructor *North Park University* *2018-2020*	Create and instruct cartography and geo-visualization course for North Park University. Advise faculty on creation and curation of Location Intelligence program at the university.
Adjunct Instructor *Elmhurst College* *2014-2021*	Advise AP Human Geography certificate program; create and teach online courses: Urban, Economic, & Population Issues in Human Geography, and Skills for the Digital Earth MOOC.
Teaching Assistant *Penn State University* *2013-2024*	Create hands-on lab exercises for and serve as teaching assistant for Penn State (1) Maps and the Geospatial Revolution MOOC; (2) Geodesign MOOC; (3) GeoIntelligence MOOC. Offerings have attracted 150,000 students to date.
Instructor *Online Learning Consortium* *2014-2016*	Create and teach online 9-week course and 1 week short courses with focus on *GeoTechnologies.* Advise attendees from diverse disciplines on how to integrate spatial analysis.
Instructor *The Academy for Lifelong Learning* *2017- 2022*	Create and teach face-to-face "why mapping matters to society" courses. Interact and support the lifelong learning community which is in part comprised of retired professionals.
Instructor *eNet Colorado* *2012-present*	Create and teach online 5 week courses: *Story Mapping for Education, Spatial Thinking for Educators, Spatial Thinking and Geotechnologies I and II.*
Instructor *T3G Institutes* *2009-present*	Create and teach content and skills for annual Teachers Teaching Teachers GIS (T3G) institutes for 400 primary, secondary, university, and informal educators. Support monthly webinars and foster community.
Instructor *Eastern Michigan Univ* *2005-2015*	Co-create educational GIS certificate program content; co-create all course materials and activities; teach online courses.
Advisory Board *Colorado Geographic Alliance and Emily Griffith Technical Coll,* *2000-Present*	Serve on advisory board for the Colorado Geographic Alliance and Emily Griffith Technical College: Curriculum development, professional development for educators, partnerships, GIS in education, fundraising.
Instructor *Denver Public Schools* *JeffCo Public Schools* *2003-2005*	Advise schools on new GIS programs; create course materials; teach first course in program; serve as Spanish Instructor.

Instructor *Sinte Gleska University* *Rosebud, South Dakota* *2002-2015*	Create and instruct the first online GIS course at the Rosebud Sioux's Sinte Gleska University. Advise university staff on design of program; teach hands-on workshops, foster partnerships between the tribe, the university, the communities, the schools, and the USGS.
Guest Instructor *University of TX-El Paso* *2001-2018*	Serve as guest instructor for several GIS courses to build an international interdisciplinary GIS community in E-911 services, news media, regional councils, public works, wastewater treatment, and in other disciplines.
Guest Instructor *University of Montana* *2002-2005*	Serve as guest instructor for University of Montana's online GIS course for educators. Answer technical and curriculum integration questions and worked with EOS staff.
Adjunct Instructor *Red Rocks College* *1995-2001*	Created and maintained first GIS course at Red Rocks Community College; wrote successful grant proposal for GIS program strategic plan.
Visiting Scientist *Metro State Univ* *1993-present*	Teach 300 hands-on classes and institutes at primary, secondary, and college level, on geography, GIS, remote sensing, cartography, and natural hazards, in Colorado.
Adjunct Instructor *Metropolitan State College* *1994-1995*	Created GIS curriculum/assessments; taught Advanced GIS and ArcGIS courses. Participated in campus-wide GIS implementation team.
Geographer, USGS *1989-2006*	Teach 40 workshops annually for government, news media, Congressional, K-12, professors, the research community, general public, and other audiences on the use and application of spatial data, technology, and methods.

Books, Book Chapters, Forewords





Ritchie, William J., Kerski, Joseph, and Lohrke, Franz T. 2025. Spatial thinking and digital geospatial tools for entrepreneurship, pp. 176-183. Chapter 34 in *Elgar Encyclopedia of Entrepreneurship and* Digitalization. DOI: https://doi.org/10.4337/9781035319299. URL: https://www.elgaronline.com/display/book/9781035319299/9781035319299.xml

Kerski, Joseph J. 2025. Chapter: Integrating web mapping and geospatial technologies. In Solem, Foote, et al., *Thriving in an Academic Career.* Routledge, 368 p.

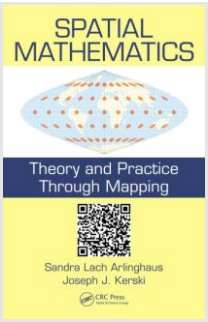
Kerski, Joseph J. 2024. Teaching and Learning about Geo-Ethics. In *Geoethics, Ethical Challenges and Case Studies in earth Sciences,* Wyss and Peppoloni, (Eds.), Elsevier, 450 p.

Kerski, Joseph J. 2023. Teaching and Learning Geography with a Web GIS approach. In *Re-visioning Geography: Supporting the SDGs in the post-COVID era.* Springer International, pp. 113-135.

Artz, Matt, and Kerski, Joseph J. 2023. *Creating a Smarter Campus.* Esri Press. Co-editor, 172 p. Parts: Educators, Researchers, IT Support, Administrators.

Arlinghaus, Sandra Lach, Kerski, Joseph J., and Arlinghaus, William. 2023. *Teaching Mathematics Using Interactive Mapping.* CRC Press/Taylor & Francis, 330p.

Kerski, Joseph J. 2023. Fundamentals of Mapping and GIS. Chapter 6 in In *Key Methods in Geography.* Edited by Clifford, Cope, and Gillespie. *Sage Publications,* 784 p.



Kerski, Joseph J. 2022. Online, engaged, instruction in geography and GIS using IoT feeds, web mapping services, and field tools within a spatial thinking framework. *The Geography Teacher 19(3): 93-101.*

Solem, Michael, Tu Huynh, Niem, and Kerski, Joseph. 2020. Teaching geography students about careers, in *Handbook for Teaching and Learning in Geography*, edited by Helen Walkington, Jennifer Hill, and Sarah Dyer. Chapter 32, pp. 443-457. ISBN 9781788116480. Edward Elgar Publishing.

Kerski, Joseph J., and Baker, Thomas R. 2019. Infusing educational practice with web GIS, in *Geospatial Technologies in Geography Education,* De Miguel Gonzalez, Rafael, Donert, Karl, Koutsopoulos, Kostis (Eds.), Springer, pp. 3-20.

Kerski, Joseph J. 2019. *Spatial Thinking in Environmental Contexts: Maps, Archives, and Timeline.* Co-edited by Arlinghaus, Sandra Lach, and Kerski, Joseph J. CRC Press. Including sole authorship of 3 chapters in this book.

Kerski, Joseph J. 2019. *GIScience Teaching and Learning Perspectives.* Edited by Balram Shivanand and James Boxall. Foreword. Springer.

Kerski, Joseph J. 2016. Location Privacy. *The Geographic Information Science & Technology Body of Knowledge (3rd Quarter 2016 Edition),* John P. Wilson (ed.). doi: 10.22224/gistbok/2016.3.2

Kerski, Joseph J. 2016. *Interpreting Our World: 100 Discoveries That Revolutionized Geography.* ABC-CLIO. ISBN: 978-1-61069-919-8.

Kerski, Joseph J. 2015. Opportunities and Challenges in Using Geospatial Technologies for Education, In Muniz Solari et al. (eds.), *Geospatial Technologies and Geography Education in a Changing World*, Japan: Springer, pp. 183-194.

Milson, Andrew J., and Kerski, Joseph J. 2015. Around the world with geospatial technologies. Chapter 25 in *Social Studies Today: Research and Practice, 2nd Edition.* Edited by Walter C. Parker. Routledge, 310p.

Kerski, Joseph J. 2014. Foreword to *Birds Without Borders—Investigating Populations, Habitats, and Conservation of Birds in the U.S. and Abroad,* by Nancy M. Trautmann, James G. MaKinster, and the Crossing Boundaries Team. Carte Diem Press.

Clark, Jill A., and Kerski, Joseph J. 2015. Using geotechnology tools in sports coaching. Chapter 15, in *Practical Sports Coaching,* edited by Christine Nash. Routledge, pp. 277-308.

Kerski, Joseph J., and Baker, Thomas R. 2014. Collecting geo-data to support classroom field studies. Chapter 5, in *Learning and Teaching with Geomedia,* edited by Gryl, Inga, Jekel, Thomas, Juneau-sion, Caroline, Lyon, John, and Sanchez, Eric. Cambridge Scholars Publishing, pp. 59-69.

Kerski, Joseph J. 2014. Mapping for Understanding Community, Region, and the World: Using GIS in Indigenous Education. In *Mapping Native America: Cartographic Interactions Between Indigenous Peoples, Government, and Academia: Cartography and Indigenous Autonomy.* Dan Cole, Smithsonian Institution (Ed.).

Baker, Thomas R., and Kerski, Joseph J. 2014. *Lone Trailblazers: GIS In K-12 Science Education. In* MaKinster, J.G., N.M. Trautmann, & G.M. Barnett. *Teaching science and investigating environmental issues with geospatial technology: Designing effective professional development for teachers*. Dordrecht, Netherlands: Springer, pp. 347-372.

Arlinghaus, Sandra Lach, and Kerski, Joseph J. 2013. *Spatial Mathematics: Theory and Practice Through Mapping.* CRC Press/Taylor & Francis, 300p.

Milson, Andy, Kerski, Joseph J., and Demirci, Ali. 2012. *International Perspectives on GIS in Secondary Education.* Netherlands: Springer. Co-editor, author.

Kerski, Joseph J., and Jill Clark. 2012. *The GIS Guide to Public Domain Data.* Redlands, CA: Esri Press.

Adams, Joy K., Huynh, Niem Tu, Kerski, Joseph J., and Hall, Brent. Chapter 2: Geography Education and Career Readiness. 2012. In *Practicing Geography: Careers for Enhancing Society and the Environment.* Pearson.

Gadsden, David, Taylor, Anne, and Kerski, Joseph J. 2012. *Tribal GIS: Supporting Native American Decision Making.* Redlands, CA: Esri Press.

Kerski, Joseph J., and Edelson, Danny. 2011. Foreword. Plus one chapter. *Geographic Literacy in the United States.* Rutherford, D., Elbow, G., and Shearer, C. (eds.). Washington, DC: National Council for Geographic Education.

Kerski, Joseph J. 2011. Sleepwalking Into the Future: The Case for Spatial Analysis Throughout Education. In *Learning with Geoinformation.* Donert, Karl and Lindner-Fally, Michaela (eds.). Wichmann.

Kerski, Joseph J. 2010. *Foreword: Reading, Writing and Thinking Around the Globe: Geospatial Technologies for the English Language Arts Classroom and Beyond,* by Barbaree Duke, Carte Diem Press.

Kerski, Joseph J. 2010. *Foreword: Putting Interpretation on the Map,* by Heidi Bailey. Fort Collins, CO: National Association of Interpretation.

Wilson, John, et al. 2011. *Deploying ArcGIS on a Higher Education Campus.* Esri Press. Reviewer and editor. E-book.

Kerski, Joseph J. 2010. Spatial Thinking to Understand Europe: The Global GIS Project. In *Using GIS in European Geography Education,* Karl Donert and Przemyslaw Charzynski (Eds.), Esri Press.

Kerski, Joseph J. 2008. Comparing sea level rise in cities. Teaching boxes in Stan Brunn, Don Ziegler, and Maureen Hays-Mitchell, eds. *Cities of the World*. 4th Edition. Rowman & Littlefield Publishers, Inc.

Kerski, Joseph J. 2008. Towards an International Education Community. *Digital Geography.* Information Age Publishing, pp. 61-76, Chapter 3.

Kerski, Joseph J. 2008. The World at the Student's Fingertips: Internet-based GIS education opportunities. *Digital Geography.* Information Age Publishing, pp. 119-134, Chapter 6.

Kerski, Joseph J. 2007. GIS in Education. In *Handbook of GIS.* John Wilson and Stewart Fotheringham, eds. Blackwell Publishers. ISBN 9781405107952

Lewis, Gary B., and Christine V. McLelland. *Earthcaching—An Educator's Guide.* Boulder, CO: Geological Society of America. ISBN: 0-8137-7617-1. Co-author of this guide and in training educators in earthcaching.

Kerski, Joseph J. 2007. Mapping for science. Chapter 2 in *California Science.* Textbook. Glencoe-McGraw Hill.

Bryan, Dale-Marie, Cecilia Minden-Cupp, and Joseph Kerski. 2006. *The Colorado River.* New York: Scholastic Library Publishing. ISBN 0516250337.

Labella, Susan, Cecilia Minden-Cupp, and Joseph Kerski. 2006. *West Virginia.* New York: Scholastic Library Publishing. ISBN 0516249940.

Kerski, Joseph and Simon Ross. 2005. *Essentials of the Environment.* United Kingdom:

Hodder Educational Media and Oxford University Press. ISBN 0340816325.

Coulter, Bob and Joseph Kerski. 2005. Using GIS to transform the mathematical landscape. Chapter 22 in *Technology-Supported Mathematical Learning Environments: 67th Yearbook of the National Council of Teachers of Mathematics.* Reston, VA: Nat'l Council of the Teachers of Mathematics. ISBN 0-87353-569-3.

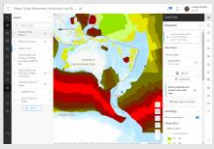
Kerski, Joseph J. 2004. GIS for Citizenship Education, in *Geography and Citizenship Education: Research Perspectives.* Edited by A. Kent and A. Powell. Published for the International Geographical Union Committee on Geographic Education by University of London Institute of Education. ISBN 0-9539850-4-0, pp. 129-138.

Kerski, Joseph J. 2003. Foreword. *Making Community Connections.* Redlands, California: Esri Press.

Malone, Lyn, Christine L. Voigt, Anita M. Palmer. 2003. *Community Geography: GIS In Action*. Redlands, California: Esri Press. Served as technical editor.

Malone, Lyn, Christine L. Voigt, Anita M. Palmer. 2002. *Mapping Our World: GIS Lessons for Educators*. Redlands, California: Esri Press. Served as technical editor.

Columns and Social Media



Kerski, Joseph J. 2018-present. Podcast. *Thinking Spatially.* Monthly. Topics focus on technology, geography, space, place, and GIS, and have included Cross-staffs and astrolabes, Al-Idrisi, Web Mapping Applications, Smith's Geological Map, Burnham's City Innovations, Bridges and Canals, Christaller's Central Place Theory, and much more: https://podcasts.apple.com/us/podcast/thinking-spatially/id1441426924

Kerski, Joseph J. 2018-2020. The Coordinated Campus column. Appeared 4 times, *XYHT Surveying Magazine*. https://www.xyht.com/

Kerski, Joseph J. 2016-2023. Column: *GeoInspirations: Making a Difference in Geography and Geotechnologies.* Appeared 8-10 times each year. *Directions Magazine:, Example:* https://www.gisetc.com/category/our-blog/directionsmag/geoinspirations/

Kerski, Joseph J. 2013-2019. Geography Education Column: *What's Wrong with this Picture?* Appeared 4 times each year, *The Geography Teacher,* National Council for Geographic Education, Taylor & Francis.

Kerski, Joseph J. 2011-2013. Geography Education Column: *What's Wrong with this Picture?* Appeared 6 times each year, *Perspective,* National Council for Geographic Education.

Kerski, Joseph J. 2002-2011. Geography Education Column: *Isn't That Spatial.* Appeared 6 times annually, *Perspective,* Nat'l Council for Geographic Education.

Kerski, Joseph J. 2007-present. GIS Education Community. Weekly essays on https://community.esri.com/community/education on pedagogical issues, technological tools, and other topics of interest to the geospatial education community.

Daily posts to Twitter, LinkedIn, Esri Community, Facebook, YouTube, Instagram, since 2008. TikTok since 2021. Followers: 10,500 (Twitter), 10,500 (YouTube).

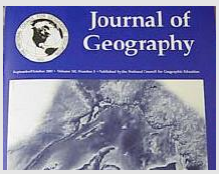
Other Media

- 2024: Pathfinders Social: Helping Students Change Their World: https://www.pathfinders.social/post/joseph-kerski.
- 2008-present. > 7,500 videos created for online geo-channel entitled *Our Earth:*

https://esriurl.com/ourearth on mapping, GIS, geography education, fieldwork, STEM, climate, weather, space and place, geomorphology, ethics, urbanization, and other topics.

- 2007-present. Map Projections, GIS, geography education. Videos for Esri NCGE, and other organizations.
- 2007. Exploring Asia. Video for National Geographic Society. Part of Esri development team.
- 2006. *Geography for Students.* Content author and featured interview subject in this series of DVDs produced by Schlessinger Media. This set of videos received the NCGE media award, 2009.
- *Ten Cool Things About the USGS.* Planning and production team, produced by SceneThree, US Department of the Interior.
- Conducted broadcasts for National Public Radio's *Weekend America* and also for KEOM Radio, Texas.
- Featured in *Backpacker* magazine about GPS and the outdoors, 2007.
- Appearing in newspaper and magazine articles about geography and science annually.

Articles



Sarkar, Avijit, and Kerski, Joseph J. *In Press.* Implementing location analytics in business instruction. *Journal of Information Systems Education.*

Goodchild, M. et al. 2025. "Locational Data and the Public Interest," *IEEE Transactions on Technology and Society,* 6(2): 129-154, doi: 10.1109/TTS.2025.3527897. Served on selected committee to create this content.

Tighe, Lorraine, and Kerski, Joseph J. 2023. Open Science and ArcGIS: Advancing collaborative geospatial research and knowledge sharing. *AGU Science Fall Meeting Abstracts.*

Jackson, Rodney D., Kerski, Joseph J. 2023. Examining the perspectives of practitioners toward a geospatial technology competency model. *Transactions in GIS* 27(5): 1550-1578. https://doi.org/10.1111/tgis.13087

Ritchie, William J., Kerski, Joseph, Novoa, Luis J., Tokman, Mert. 2023. Bridging the Gap Between Supply Chain Management Practice and Curriculum: A Location Analytics Exercise. *Decision Sciences Journal of Innovative Education*. https://doi.org/10.1111/dsji.12286

Crampton, J., Dony, C., Fast, V., Kedron, P., Kerski, J., Nilupaer, J., Wilmott, C. (2022). *Quick Start Guide to Integrate the Ethics of Locational Information into Your College and University Courses and Programs.* American Association of Geographers Resource. https://doi.org/10.14433/2017.0114 [doi.org]

Duke, Barbaree, and Kerski, Joseph J. 2022. *Geography in Everyday Life in 2022. Directions Magazine. https://www.directionsmag.com/article/11897*

Şanli, Cennet, and Kerski, Joseph J. 2021. Spatial Thinking Skills Teaching Based on Multiple Intelligence Theory in Geography Lessons. In *5th International Research Congress on Social Sciences.* http://www.usobak.com/index.php/en/.

Geraghty, Estella, and Kerski, Joseph J. 2020. The impact of COVID-19 on Geography, GIS, and Education. J-Reading Journal of Research and Didactics in Geography. Vol 2. http://j-reading.org/index.php/geography/article/view/264

Kerski, Joseph J. 2020. Teaching about food and agriculture with web mapping tools and

spatial data. *The Geography Teacher* 17(3): 89-93.

DeMers, Michael, Kerski, Joseph J., and Sroka, Christopher J. 2020. Assessing the effectiveness of a GIS professional development institute: The Teachers Teaching Teachers GIS (T3G) Institute. Annals of the American Association of Geographers. 1160-1182. September. https://www.tandfonline.com/doi/full/10.1080/24694452.2020.1799745

Viehrig, Kathrin, Kerski, Joseph J., and others. 2019. Issues in improving geography and earth science teacher education: results of the #IPGESTE 2016 conference. *Journal of Geography in Higher Education*, DOI: 0.1080/03098265.2019.1608920.

Kerski, Joseph J. 2019. Teaching about population dynamics and characteristics with web mapping tools and data. *The Geography Teacher.*

Kerski, Joseph J. 2017. Collecting and analysing field data in education. *Interaction: Journal of the Geography Teachers Association of Victoria (Australia). 45(2).*

Kerski, Joseph J. 2017. Trespassing Across America: One Man's Epic, Never-Done Before (and Sort of Illegal) Hike Across the Heartland, Book Review. *Journal of Geography* 1(1): 9-10. http://www.tandfonline.com/doi/full/10.1080/00221341.2016.1273964

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Kerski, Joseph J. 2001. A national assessment of GIS in American High Schools. *International Research in Geographic and Environmental Education* 10(1): 72-84.

Kerski, Joseph J. and Alan Ward. 2000. GIS Education for Mapping Professionals. *Geomatics International Magazine*. July 2000.

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The Effectiveness of GIS in High School Education. 1999. *Proceedings, 19th Annual Esri User Conference*.

Kerski, Joseph J. 1998. Teaching About Karst. *Focus, Geography's Magazine 45(2): 15-21.* Fall. American Geographical Society.

Kerski, Joseph J. 1998. Fits, Starts, and Headway: The Implementation of ArcView GIS-based Lesson Modules in the High School Geography Curriculum. *Proceedings, 18th Annual Esri Conference.*

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Kerski, Joseph J. 1993. USGS Generates Digital Maps for Thematic Cartographic Projects. *Geo Info Systems* 3(1): 36-41.

Other

Podcasts, 2018-present. ***Thinking Spatially*** *with Joseph Kerski*. www.josephkerski.com

Articles and book reviews published each year in: *ArcWatch, Directions Magazine, Esri Insider, Esri Globe, GIS Educator, and ArcNews (Esri), People, Land, and Water (US Department of the Interior Newsmagazine), Spatial News (GeoComm Corp.), NCGE Perspective, AAG Newsletter, AAG Specialty Group Newsletters, Geography.about.com, Colorado Geographic Alliance News,* other newsmagazines, educational listservs, and sites-of-the-week services.

Book Review examples:

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Kerski, Joseph J. 2024. Ethics in Everyday Places: https://spatialreserves.wordpress.com/2024/06/24/book-review-ethics-in-everyday-places/

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Kerski, Joseph J. 2011. Global perspectives in the geography curriculum: Reviewing the moral case for geography. Book review. *Journal of Geography 110(5): 217.*

Kerski, Joseph J. 2011. Encyclopedia of Geographic Information Science. Book review. *Journal of Geography 110(4): 177.*

Selected Professional Activities

Scheduled Events for 2026: Teach Environmental Conservation GIS for state agency and regional science communities, New York and New Jersey; AAG Geography Annual Meeting; Geo Ed 2026 Conference; Contract with Esri to create curriculum, thought leadership essays, and workshops.

Keynote Speaker at the following events in 2025: South Central Arc User Group

(Texas), New York GIS SIG conference, New Mexico GIS Conference. Speaker at the following events in 2025: National Conference on Geography Education, GeoTech Geo Ed Conference, Esri UC and Education Summit, AAG Geography Annual Meeting.

GIS short course for Indigenous High School students, with Indian Land Tenure Foundation – Rapid City, South Dakota, 2025.

- Create content and teach course for students representing all major tribes in South Dakota.

GIS courses in ArcGIS Pro, ArcGIS Online, Field Applications and Methods, 2025-2026**.**

- Create content and teach courses for the National Forest Foundation staff.

Geo'Ed Conferences for Community Colleges, 2016-2026.

- Keynote speaker, receive lifetime achievement award, conduct workshops. This conference is run by the GeoTechCenter, the leader in GIS in community colleges.

Advising International Esri Distributors on GIS education strategy, 2013-present.

- Skills, approaches, benefits, and strategies for implementing spatial thinking across multiple disciplines in schools and higher education: UAE, Kenya, Malaysia, Japan, Australia, New Zealand, others.

Promoting Geography in the Media, 2023.

- Gave workshop on strategies to promote and support geography for the American Association of Geographers.

Teaching with GeoAI: Challenges and Opportunities, 2024-present.

- In Universities, conferences, and special events.

Integrating GIS Into Statistics Research and Instruction. 2023.

- Created activities and taught short course for International Statistical Association, conference attendees, Ottawa, Canada.

Arkansas, Wisconsin, North Dakota, Idaho, Wyoming, Mississippi, North Carolina, Arizona, Kentucky, New Mexico, and Pennsylvania GIS Associations, Keynote Speaker. 2022-present.

- Gave keynote addresses and met with key state stakeholders (nonprofit, government, academics, industry) about GIS trends, forces, and educational implications.

Integrating GIS Into Meteorology Instruction. 2023-present.

- Created 12 activities and taught institute for American Meteorology Association.

Integrating GIS Into Pre-service education instruction. 2023.

- University of Hamburg, Germany: Consulting, teaching, creating curricular items and field surveys.

DEI GIS GeoTech Center Institute, Instructor and Keynote Speaker. 2023.

- Gave keynote address and provided multi-day institute integrating DEI with GIS.

South Dakota State University Geography Convention. 2013 and 2023.

- Gave keynote addresses about the broadening and deepening of spatial thinking in GIS and hands-on workshop; served as student research poster contest judge.

Florida and Oklahoma GIS Associations, Keynote Speaker. 2022.

- Gave keynote addresses about GIS trends, forces, and educational implications.

GI-Salzburg and Visiting Scientist, 2011 and 2022.

- Gave keynote address and workshops; advise faculty and students on research and instruction, review papers on GIS education, University of Salzburg, Austria.

Tribal Lands Staff Conference, 2022.

- Speaker: GIS in Native lands management and education.

European Association of Geography conferences, 2013, 2018, 2022.
- Keynote speaker: Teaching with and about GIS and geography education in Belgium, Germany, and Greece.

Tribal GIS Education Symposium, 2020 and 2021.
- Speaker: GIS in Native education and why it matters.

GIS Day presentations for international conferences in Indonesia, Bulgaria, Jamaica, Austria, and India. 2021.
- Topics: GIS in education, natural hazards, population change, climate.

Indiana GIS conferences, 2018 and 2022.
- Invited keynote speaker. Also advised 4 universities on planning a relevant future.

TEDx. Vail Colorado. 2020 and 2021.
- Invited speaker for topics: The Whys of Where, Climate and GIS.

EarthX. Dallas, Texas. 2020.
- Invited speaker for World's largest Earth Day event.

Decision Science Institute. Charleston South Carolina. 2020.
- Presentation focused on location analytics in business education.

Higher Education GIS Conference, University of Toronto, Canada. 2020.
- Invited speaker; workshops, research.

University of Hamburg, School of Education, 2019.
- Invited consultant and speaker; workshops, research.

Keynote Address and workshops, Geography Teachers Association of Victoria (Australia). 2019.
- Invited consultant and speaker on climate, geography, and GIS; teach workshops, 2 university visits.

GIS User Group Meetings and workshops, New Zealand, 2019.
- Invited consultant and speaker; conduct workshops in 4 universities, 3 schools, 4 user group conferences.

South Dakota GIS Conference, 2019.
- Invited keynote speaker; workshops, consulting with universities and colleges.

Netherlands, Germany, Spain: European Association of Geographers, GIS consulting, University Jaume I.
- Invited speaker, 2018. Conduct workshops; faculty consulting.

University of North Alabama geography conference, 2018.
- Invited keynote speaker. Also – 3 university visits: consulting, workshops, colloquia.

Australia: Keynote at Geography Teachers of Victoria Conference, Teacher Professional Development Workshops, 5 cities, 7 universities.
- Invited keynote speaker. Perth, Canberra, Brisbane, Sydney, Melbourne.

North Dakota GIS Conference, Keynote Speaker, 2017.
- Invited keynote speaker – the Future of GIS in education, careers, and society.

5 Universities in Florida, 2017 and 2022. Keynote speaker, workshop leader, meetings with faculty and students.
- University of Central Florida, University of Florida, Univ of North Florida, and USF.

7 Universities in Illinois, 2017-2018. Keynote speaker, workshop leader, meetings with faculty and students.
- University of Illinois, Western Illinois University, University of Chicago, North Park

University, Eastern Illinois University, Lakeland College, Northwestern University.

Youth Mappers Project, 2016-present.
- Partner with and advise the American Association of Geographers and Esri on citizen science, mapping, and international development efforts, including research on OpenStreetMap.

4 Universities and 2 K-12 schools in New Mexico, 2016. Keynote speaker, workshop leader, meetings with faculty and students.
- New Mexico State University, New Mexico Tech, Western New Mexico University, and University of New Mexico. Santa Fe Indian School and Albuquerque Academy.

International Perspectives on Geography and Earth Science Teacher Education Conference, Padagogische Hochschule FHNW University, Switzerland, 2016.
- Invited speaker, visits to ETH University and Zug International Secondary School.

National Science Foundation and Other Funded Projects, 1995-2023. Assisted with proposal writing, teaching, curriculum, and Advisory Board for the following projects:
- GIS Tech, Del Mar College, Texas: http://gistech.delmar.edu/.
- Global Youth TechCamps, AAG and US State Department: http://www.aag.org/TECHCAMPS/INTERNATIONAL
- Digital Earth Europe: http://www.digital-earth.eu.
- Community Science Investigators: MIT and Missouri Botanical Garden.
- GIS Career and Education initiative, California: http://geoinfo.sdsu.edu/hightech/
- GeoTech Center, USA: http://www.geotechcenter.org
- Crossing Boundaries Project: http://crossingboundariesproject.org/.

Community College and Universities in Texas, 2016-2020. Keynote speaker, workshop leader, meetings with faculty and students.
- Texas State Univ, Univ of Texas San Antonio, Austin Community College, Brookhaven College, Univ of Texas Dallas, SF Austin State Univ, Southern Methodist Univ.

Applied Geography Conferences, 2012-2020.
- Serve on team to integrate business and geography research and development; conduct presentations and workshops.

Montana State GIS Conference, 2016.
- Invited keynote address; teach GIS workshops; advised state GIS professionals.

United Nations University and 5 other universities, Japan, 2015.
- Invited speaker; discussed partnerships in GIS in education with UNU and Esri Japan.

Iowa State GIS Conference, Pella, 2015.
- Invited keynote address; teach GIS workshops; advised Iowa state geomentors.

Spatial Literacy Initiatives, Abu Dhabi and Iraq, 2013-2020.
- Create and conduct geo-enabled lessons and series of hands-on workshops to showcase teaching with technology throughout these two countries to support Memorandum of Understanding there between the Abu Dhabi Department of Education and Esri.

European SchoolNet, 2013-2016.
- Foster partnerships in geospatial education; create geo-enabled lessons to showcase teaching with technology throughout Europe; conduct webinars.

East Africa GIS Initiatives, 2010-present.
- Teach GIS classes, promote teaching, learning, and research with GIS in 6 universities and secondary schools.

Taiwan Geography Education Association, Taipei, Taiwan, 2008 and 2014.
- Invited keynote addresses; teach GIS and GPS workshops.

Geographical Association, 2000-2017.

- Meet with partners in education; Teach hands-on workshops and give presentation on the use of Web GIS in geography education.

North American Association for Environmental Education, 2011-present.
- Created geocaching course for attendees, participated in author's corner, gave presentation on Web GIS in environmental education.

Night with a Geographer, 2014-2016.
- Gave keynote addresses in this series of presentations at museums, businesses, and libraries on geography and society, Fort Collins, Colorado.

GIS in the Rockies Conferences, 1992-2022.
- Give keynotes and other addresses on geography and GIS education, Colorado.

American Educational Research Association (AERA), 2010-2019.
- Co-teach hands-on GIS courses with Census Bureau and Washington University in St Louis on integrating educational research and spatial analysis through GIS.

National Council of the Teachers of Mathematics (NCTM), 2010.
- Networked with NCTM educators at national conference and created 22 GIS-based mathematics inquiry-driven lessons.

National Council for Geographic Education, 1995-present.
- Elected to NCGE Executive Board, Research and External Relations, 2002-2004, Vice President 2008-2010, President, 2011, Past President, 2012. Work with board and members to craft vision for future and implement strategies to make vision a reality. Create and foster educational partnerships between NCGE and other educational organizations. Conducted presentations on GIS in education, cultural geography, and physical geography.

Partnership for 21st Century Skills, 2004 and 2009.
- Served with a National Council for Geographic Education Task Force on the Partnership for 21st Century Skills, to include geography on a critical set of documents for the US Department of Labor and US Department of Education (www.21stcenturyskills.org).

Bird's Eye: Remote Sensing in Education, NASA and NCGE, 2006-2017.
- Create curricular materials as part of NASA-funded project with the National Council for Geographic Education that use remote sensing technologies and imagery.

My Community Our Earth Project, 2005-2014.
- Partner with and advise the Association of American Geographers and Esri to conduct geography and watershed institutes and ongoing curriculum development for instructors in the Pacific Basin, Latin America, Philippines, and Tunisia, co-authored article for the *International Research in Geography and Environmental Education.*

Teaching with Primary Resources, Fairfield University, 2009.
- Advise and give presentations and webinars for Library of Congress-funded project.

University of Cambridge, Liverpool Hope University, United Kingdom, 2007.
- Give keynote address and teach a variety of GIS workshops as part of UK and Europe-based educational initiatives, including Cambridge Partnership and HERODOT.

GIS For Oil and Gas Professionals, Colorado School of Mines; Colorado Mesa University, 2007-2014.
- Co-conducted institutes for mining and oil and gas professionals in GIS and GPS.

Earthcaching and GoEarthTrek, Geological Society of America, 2006-2009.
- Advise, create curriculum, and conduct workshops in these field-based geotechnology NGS-funded projects.

Definitions Project, National Interpretation Association, 2005-2007.
- Partner with 26 federal agencies and nonprofit associations to create metadata for environmental education and park interpretive work.

National 4H GeoTechnologies Project, USDA and Esri, 2003-2009.
- Partner with USDA and Esri on curriculum development and teach webinars on the effective use of GPS and GIS in informal education settings.

Book, Geographic Education National Implementation Program, 2006-2007.
- Book proposal that fosters teaching and learning using Virtual Globe technologies (such as Google Earth and NASA Worldwind) and web-mapping tools (such as The National Map and National Atlas).

Proposal to Create and Maintain NSDI Liaisons Web Resources in NGPO, 2006.
- Create template for liaisons in the National Geospatial Partnerships Office, USGS.

Education Portal Web Master, 2006.
- Create new content for and manage http://education.usgs.gov education portal.

Exploring Biodiversity and Urban Sprawl Along Colorado Front Range, 2000-2006.
- Conduct workshops in the use of geographic techniques in biology education, write curricula using GIS, and serve on advisory board in NGS-funded project and beyond.

Exploring Geography Using Geotechnologies, New Zealand, 2005.
- Gave presentation on the importance of spatial thinking to society for the US Ambassador to New Zealand and the Ministry of Education; co-conducted institute in the use of GIS and GPS to examine geographic issues for groups of international teachers in New Zealand.

Examining Sustainability, Biodiversity, Ecotourism, and Geography Using Geotechnologies, Costa Rica, 2004-2005.
- Co-created and co-conducted 9-day institutes in the use of GIS and GPS to examine geographic issues for groups of international teachers in Costa Rica.

Book and Web Resource Reviews, College Board, 2004.
- Reviewed books and Internet resources for College Board web site to support educators teaching AP Human Geography.

Assessment of GIS Program, Burlington County College, New Jersey, 2004.
- Created 30-page assessment and recommendations for college on current status and future of college's GIS program.

Geography and GIS Web Site Assessment, 3Clix.Info, 2004-2005.
- Identified, assessed, and rated web-based geography and technology resources for 3Clix Company.

Distance Learning and GIS Curriculum Development, North Carolina School of Mathematics and Science, 2004-2005.
- Created on-line and in-school curriculum, gave keynote addresses, and taught classes in the use of geotechnologies for faculty and students.

Standing Rock Sioux GIS Workshop, GIS Workshops for Educators, 2004.
- Created and conducted workshops in the use of GIS for tribal, scientific, and educational applications at two tribal headquarters and at the South Dakota Department of Education.

Spatial Education Coordination with Orton Family Foundation, 2000-2004.
- Coordinated curriculum development and training for educators with the Orton Family Foundation's Community Mapping Program.

Virtual Immersion in Science Inquiry for Teachers, 1998-2003.
- Conduct workshops in the use of GIS for science and geography teachers in this NSF-sponsored project, contribute to online learner collaboratory, serve on advisory board.

Geography Education Magazine for Science (GEMS), 2002-2004.
- Sought and received National Geographic Society funding for this electronic magazine

portal to federal educational resources; advise web designer; create content; publicize.

Jefferson County, Adams-12, and Horace Mann Middle School, Educational GIS Implementation Projects, Colorado, 1996-2007.
- Co-wrote three approved grants, created natural hazards, oil, county demographics, and neighborhood analysis GIS-based lessons, and instructed teachers and students.

National GIS Institutes, Texas State Workforce Development Program, Texas State University, 1998, 1999, and 2003.
- Co-trained instructors from across the USA and Canada in GIS techniques in the first such institutes ever conducted.

Satellite Broadcast, Southwest Indian Polytechnic Institute, Albuquerque, 1999.
- Participated in broadcast to all Native American colleges and universities about applications of GIS on tribal lands and in tribal schools.

First GIS Institute for Preservice Educators, Roger Williams University, 1999.
- Trained Department of Education faculty from across the USA on GIS in the first institute for education faculty who train teachers.

Native American GIS / Internet Institute, Northern Arizona University, 1999.
- Co-trained 15 Native American educators and tribal environmental professionals across the USA and Canada in GIS and Internet techniques.

Selected Conference Workshops and Papers

Society for the Preservation of Natural History Collections (SPNHC), 2017.
- Presentation on how and why to geocode museum and library collections for the purpose of spatial analysis.

American Association of Geographers, 1994-present.
- Presented papers on Exploring Biodiversity along the Front Range, Analyzing State Population Centers from 1900 to 2010, and other geographic research.

National Council for Geographic Education, 1995-present.
- Conduct workshops on the environment, glaciation, karst, mapping, GIS, and GPS.

Annual Conferences, Society for Conservation GIS, 2018-present.
- Conducted workshops and presentations focused on GIS and conservation.

Annual Conferences, American Geophysical Union, 2020-present.
- Conducted demos, planned communications for messaging to community.

National Council for the Social Studies, 2006-2020.
- Create and conduct workshops and presentations on using web mapping and GIS for teaching history and geography.

Geographical Association, UK, 2001-2012.
- Create and nurture partnerships between the Geographical Association and other organizations, conduct workshops, present papers for over a decade.

Annual Meetings, Geological Society of America, 1996-present.
- Co-conducted workshops for researchers and instructors on GIS and earth science.

International GIS Conference, Istanbul, Türkiye, 2008.
- Presented workshop, panel, and paper on GIS in education for international audience.

West Virginia Statewide GIS Institute, 2010.
- Gave keynote address, taught workshop, advised institute organizers.

Delaware GIS Conference, 2008.
- Capstone presenter on the importance of GIS in education and society.

International Society for the Digital Earth, 2007.
- Presented paper on GIS in education for international audience.

New Zealand Geographical Society and New Zealand Social Science Conferences, 2003, 2005, 2007, 2019.
- Conduct workshops across New Zealand for instructors integrating GIS technology and methods into secondary and university curricula.

International Geographical Union, 2003.
- Present paper on the interaction between GIS and citizenship education at the IGU's Commission on Geographical Education conference, University of London.

National States Geographic Information Council, 2006.
- Conducted presentation for researchers at the Pacific Institute for Research and Evaluation on social and environmental study in Baltimore; educational partnership efforts.

National Interpretation Association, 2002-2006.
- Conducted workshops on GPS and field methods for conference attendees.

National Indian Education Association, 2001-2005.
- Conducted presentations on cooperative agreement between USGS and Rosebud Sioux; on GIS in Native American education, and hands-on GIS workshops.

Esri User Conferences, San Diego, California, 1998-present.
- Presented papers and user demonstrations on implementing and assessing GIS in the secondary school curriculum; operated USGS exhibits; organized map gallery.

International Conference on GIS In Education, San Bernardino, California, 2000.
- Presented papers and workshops on implementing and assessing GIS in education and operated USGS information exhibit.

World 2000 Conference on Teaching World History and Geography, Univ of Texas.
- Conducted presentation on teaching university-level world history and geography.

Association for Educational Communications and Technology, 1999.
- Conducted workshop on pedagogical implications of the use of GIS.

Western Social Science Association, 1998.
- Presented research on population polarization on the Great Plains.

Geo-Tech Texas, Dallas, 1997-2009.
- Plan and conducted workshops for educators on technology in geography education, fieldwork, Antarctica, and teaching with topographic and thematic maps.

GIS&T Body of Knowledge. 2013-present. Initiative from the University Consortium for Geographic Information Science (UCGIS.ORG) to update and crowdsource the definitive "body of knowledge" content and skills for Geographic Information Sciences.

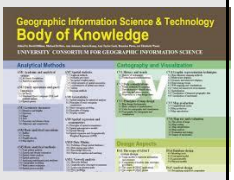
University of Northern Colorado. 2021-2023. Initiative for K-12 educators to teach GIS with sustainability. Includes online and face to face workshops and a research component.

BioBlitz, Web Mapping, Story Mapping, University, Government, and Industry Partnerships. For the 100th Anniversary of the National Park Service and beyond.

Energy for ME. 2011-2012. NSF-funded project involving sustainable energy and technology in education for Maine educators and students.

Crossing Boundaries. 2009-2015. NSF-funded project involving GIS, K-12 educators and students, university researchers, and international conservation curricular projects.

Recent Research and Development Projects



GeoTech Center. 2009-2014. NSF-funded project that creates community college geotechnology center across the USA for career pathways in geotechnologies.

CREST: Community for Rural Education, Stewardship, and Technology. 2008-2011. Project that provides students and teachers in Maine's island and remote coastal communities with intensive IT training and IT/STEM career path development.

Community Science Investigators. 2008-2010. ITEST Strategies project with the Missouri Botanical Garden and the Massachusetts Institute of Technology in offering intensive year-long, career-focused technology experiences for middle school youth and teachers in an out-of-school setting. Through CSI, participants will deepen their understanding of (and ability to apply) geospatial, simulation, and communication technologies as they address environmental and conservation-related issues.

The Implementation of GIS Technology and Methods in Education. 2003-2008. Analysis of how and why educators who have attended a GIS training have implemented GIS.

iGETT: Integrated Geospatial Education and Technology Training. 2005-2008. NSF-ATE funded project to enable two-year colleges to meet changing workforce training needs by integrating GIS, GPS, and RS.

GIS-TECH. 2003-2007. NSF-DUE funded project to infuse geotechnologies throughout the secondary curriculum, provide articulation mechanism to 4-year institutions, establish community college GIS certificates, develop data sets, and establish training modules.

MyWorld GIS Project. 2004-2006. Curriculum development and advising committee support on this GIS software developed with a grant from NSF to Northwestern University.

Global GIS Project. 2003-2005. Curriculum development on natural hazards, population, land use, mining, manufacturing, and other themes based on customized GIS tools and data.

Mapping the Colorado Standardized Achievement Program (CSAP), 2003-2004. Examine the spatial patterns of Colorado's standard achievement scores at different scales and grade levels.

Exploring Biodiversity in the Denver Metropolitan Area, 2000-2002. Research, teacher training, and curriculum development that examine open space, population growth, and diversity of species, illustrating that geographic concepts can be effectively taught in biology courses.

Historical Floodplains Along the Rocky Mountain Front Range, 2001-2005. Created lessons that use historical and current aerial photography, GIS, local building and floodplain data, and ground photographs to analyze the real threat of floods along with land use issues.

Retail Spatial Diffusion Modeling, 2002. Create lessons that use GIS and historical point data to examine point diffusion across the country using Sonic Drive-In as the model.

Exploring the Titanic Using GIS, 2002. Write 210 question, 80-page, 17-part unit that uses GIS to examine the route, sinking, rescue, and discovery of the ocean liner *Titanic.*

Mapping the Future with USGS Educational Resources, 1996-2003. Examined and tested USGS resources for earth science and geographic education, including the development of digital datasets and lesson modules.

Site Selection for Rare Plants, Loess Hills, Nebraska, 1998-2004. Lessons focused on selecting sites to study rare species in the Loess Hills using GIS.

State Historical Population Centers, 2001-2002. Co-developed methods (with Esri) and examined social and economic reasons for shifting changes in state population centers.

Geography Awareness Week Flyer and CD-ROM, 2000. Research and production of flyer and CD-ROM for 150,000 geography educators worldwide.

The Polarization of the Great Plains, 1920-1990. 1998. University of Colorado. Analysis of population decline and redistribution on the Great Plains.

Creation of, maintenance of, and training of data users in Internet spatial data access. 1995-2003. Create and maintain Internet resources for Colorado Geographic Alliance. Create and maintain RockyLink geospatial resource center; train users in Internet tools and resources.

Multimedia Authoring Evaluation. 1996. Researched multimedia authoring packages.

Production of CD-ROM for GIS-based research in Alaska. 1995. Researched and created the first demonstration CD-ROM containing digital spatial data, metadata, standards, and applications to educate data users and market programs for potential partners.

Redesigning USGS Graphic Map Products. 1994-1995. USGS. Researched, designed, and tested methods for redesign of USGS 1:24,000 and 1:100,000-scale maps using ArcInfo.

Developing a Marketing-Demonstration for DLG-E Data Model. 1994-1995. USGS. Developed GUI's illustrating the feature-based digital line graph "enhanced" model.

The Impact of Freeways on Urban Environments. 1993. University of Kansas. Developed field and GIS-based research tools to analyze the economic and social impacts of freeways in time and space in urban neighborhood.

Selected Articles About Me

Pathfinders Interview: https://www.linkedin.com/posts/josephkerski_joseph-kerski-mapping-the-path-to-a-better-activity-7264709599809679362-XuMZ/

Everything GIS podcast and other podcasts. Interviews 2020-present.

Interview with SheMaps. 2019-2021. UAV/STEM initiatives for female students, Australia.

Day of Geography Spotlight. 2017. http://www.dayofgeography.com/?p=1365

Interview with Geo Jobe GIS. 2017. http://www.geo-jobe.com/mapthis/mapthis-gis-professional-qa-esris-joseph-kerski-josephkerski/.

University of Denver Perspectives on Professional Education and Careers. 2016. Faculty Teaching Spotlight: Joseph Kerski. http://www.duprofessionaled.com/index.php/university-college-faculty-teaching-spotlight/

WCET Frontiers. 2016. *The Whys of Where: Enhancing Understanding Through Geography*. https://wcetfrontiers.org/2016/03/01/enhancing-understanding-through-geography/.

Letham, Glenn. 2015. 10 Question GeoGeek Rapidfire: Joseph Kerski. *GIS User magazine. http://gisuser.com/2015/12/10-question-geogeek-rapidfire-joseph-kerski-josephkerski/*

Verduyn, Monique. 2009. Shaping Our World: GIM International interviews Joseph Kerski. GIM International 23: 11. November. http://www.gim-international.com/issues/articles/id1439-Shaping_Our_World.html.

Interview with Joseph Kerski for the *Primary Geographer,* 2008. Geographical Association, UK. Autumn. http://www.josephkerski.com/primary_geographer_interview.pdf

Interview with Joseph Kerski, 2009. Not your everyday geographer.

http://smartpoodlepublishing.com/blog/2009/04/03/interview-with-joseph-kerski-phd-not-your-every-day-geographer/

Grants and Awards

- *Teaching Sustainbility in the 21st Century, with web-based geotechnologies as the language of the planet.* University of Northern Colorado $24,993. For Colorado K-12 educators. 2021-2023.
- *UCGIS University Consortium for GIScience Lifetime Achievement Award. 2021.*
- *GeoTech Center Lifetime Achievement Award.* www.geotechcenter.org Consortium of Community Colleges. 2016.
- *Outstanding Support from the Business Community Award.* Texas State University Geography Department. 2016.
- *Media Award, NCGE.* Schlessinger media project, *Geography for Students,* 2009.
- *Special Achievement in GIS, Esri.* NSF-funded GIS project, Del Mar College, 2007.
- *Award for Geography Education, Travelocity,* 2006. $5000.
- *Fellow, Royal Geographical Society*. Inducted 2003.
- *Geography Education Magazine of Science*. 2002. $2500. National Geographic Society Education Foundation.
- *NCGE Dissertation Award*. 2001. $500. One of two recipients.
- *Esri Special Award for Outstanding Contribution to GIS*. Given at Esri User Conference, 2000. Sole recipient.
- *Geospatial Information Technology Association*. Research Grant. $1,000.
- *Boulder Valley School District, Tech Grant,* 1999. $10,000. Co-Principal Investigator.
- *Red Rocks Community College*. 1999. Proposal for GIS Certificate Program. $1,000. Co-Principal Investigator.
- *National Geographic Society Education Foundation*. 1997 and 1999. Jefferson County and Adams 12 School Districts. $25,000 and $30,000.
- *Human Resources Initiative, US Department of the Interior*. A Sharable USGS Central Region Visitors Center. FY 1999. $49,500. Principal Investigator.
- *Human Resources Initiative, US Department of the Interior*. A Scientific CD-ROM for the 1999 Geography Awareness Week Packet. $20,000. Principal Investigator.
- *Esri / International Geographic Info Foundation*. 1998. Research Grant. $1,000.
- *Geographic Education Natl Implementation Project*. 1998. Dissertation Grant, $2,000.
- *National Geographic Society Education Foundation*. 1998. Smoky Hill High School, $7,500. Assist in grant writing and partner on project.
- *Geospatial Information Technology Association*. 1997. Ed Forrest Award, $2,000.
- *National Geographic Society Education*. 1996. Horace Mann School, Denver. $10,900.

Memberships

Royal Geographical Society Fellow: 2003-2008.

Association of American Geographers [AAG]: 1992-present. Geography Education Specialty Group Secretary-Treasurer: 1998-2000. Specialty Groups: Education, GIS, Cartography, Cultural Geography, Indigenous Geography.

National Council for Geographic Education [NCGE]: 1995-present.
President: 2011; Vice President: 2008-2010; Board Member: 2002-2004.
Past-President: 2012-present. Duties continue with the organization.

Geographical Association (UK): 2001-2014.

Colorado Geographic Alliance [COGA] Advisory Board: 1995-present.

North American Association for Environmental Education, 2011-2022.

National Council for the Social Studies: 2007-2022.

National Science Teachers Association: 2007-2017.

Geospatial Information Technology Association (GITA): 2005-2007. K-12 Ed Committee.

Association for Supervision and Curriculum Development (ASCD): 2001-2002; 2007.

Colorado Scientific Society: 1990-2005

Geological Society of America [GSA]: 1998-2024.

National Geographic Society [NGS]: 1987-present.

National Speleological Society [NSS]: 1993-2017.

Urban and Regional Information Systems Association [URISA, now GPN]: 1993-2005.

The Nature Conservancy: 1999-2005.

References

Dr. Richard Schultz
Professor and GIS Professional
Illinois USA
richardbschultz720@gmail.com

Dr. Thomas R. Baker
Education Manager - Esri, Inc. – Kansas City KS USA
tbaker@esri.com 909-793-2853 x 15559

Dr. Barbara P. Buttenfield
Emeritus Professor - Department of Geography
University of Colorado - Campus Box 260 - Boulder CO 80309-0260
303-492-3618 - barbara.buttenfield@colorado.edu

Ms. Ann Johnson
Co-PI, GeoTechCenter NSF-funded project
Colorado Springs, CO
909-583-3806 – ann@baremtn.com

Ms. Anita Palmer
Owner and President - GIS Educational Technology Consultants
Sacramento CA USA
214-533-8376 – anita@gisetc.com

Mr. Richard S. Dieter
Cartographer - US Geological Survey
P.O. Box 1290 - Conifer CO 80433
303-838-4355 - richardd_01@hotmail.com

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