
Dr. X. Mara Chen

Department of Geography & Geosciences
Salisbury University
Salisbury, MD 21801

EMPLOYMENT EXPERIENCE:

- 2007 - present, Professor, Department of Geography & Geosciences, Salisbury University, Salisbury, Maryland (Associate Chair, 2013 – 2016)
2000 – 2007, Associate Professor, Department of Geography & Geosciences, Salisbury University, Salisbury, Maryland
1994 – 2000, Assistant Professor, Department of Geography & Geosciences, Salisbury University, Salisbury, Maryland

SELECTED RESEARCH PUBLICATION:

- 2023 Chen, X.M.; Sharma, A.; Liu, H. The Impact of Climate Change on Environmental Sustainability and Human Mortality. *Environments* **2023**, *10*, 165.
<https://doi.org/10.3390/environments10100165>
- 2022 Chen M, Ritenour D., Maier K. & Sun, C. (2022) Improving Global TBI Tracking and Prevention: An Environmental Science Approach, *Global Journal of Health Science*, 2022, vol. 14, issue 3, 20, DOI:[10.5539/gjhs.v14n3p20](https://doi.org/10.5539/gjhs.v14n3p20)
- 2021 Chen X. M. (2021) Integration of Creative Thinking and Critical Thinking to Improve Geosciences Education, *The Geography Teacher*, 18:1, 19 - 23, DOI: [10.1080/19338341.2021.1875256](https://doi.org/10.1080/19338341.2021.1875256)
- 2020 Chen, M., Ritenour D. & Maier K. (2020) Enhancing the U.S. TBI data infrastructure: geospatial perspective, *Annals of GIS*, 26:3, 311-318, DOI: 10.1080/19475683.2020.1744724
- 2018 Chen, X. M. (2018). Geospatial dimension of public health: public ownerships, private operations, and individual responsibilities. *Juniper Online Journal of Public Health*, 4(1):555629. <https://juniperpublishers.com/joiph/JOIPH.MS.ID.555629.php>
- 2018 Hamilton S., and Castellanos-Galindo, G.A., Millones-Mayer, M, & Chen, M. (2018). Remote Sensing of Mangrove Forests: Current Techniques and Existing Databases. In *Coastal Research Library*, pp 497-520. Springer International Publishing.
- 2014 Chen, X. M. GIS and Remote Sensing in Environmental Risk Assessment and Management. Encyclopedia of Information Science and Technology, 3rd ed., Mehdi Khosrow-Pour (ed.) Information Resources Management Association, USA. P10-17.
- 2013 Holdai, V., M. Chen, and B. Wainwright. (2013). Examining Maryland Residential Housing Sales 1995-2006. *The Pennsylvania Geographer*, fall/winter issue, 51(2) 91-104.
- 2011 Chen, X.M. (2011). Complete PowerPoint Lecture Outlines, the Instructor Resource Center CD accompanies the Introduction to Environmental Geology by Keller, 5th ed., Prentice Hall

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- 2010 Chen, X. M. (2010). Energy Type Distribution and Consumption. EOE Encyclopedia.
https://editors.eol.org/eoearth/wiki/Energy_type_distribution_and_consumption
- 2009 Chen, X.M. (2009). PowerPoint Lecture Outline, Instructor Resource Center on CD, accompanying the Keller's *Introduction to Environmental Geology*, 4th ed., 2008, Prentice Hall.
- 2007 Chen, X. M., Stribling, J., Mueller, D., Kellams, C., and Baccala, Z. (2007). Water Quality Perceptions And Fertilizer Application Practices Of Property Owners Along The Wicomico River, Maryland, *The Pennsylvania Geographer*.
- 2007 Lawler, E. Chen, X. M., and Venso E. (2007). Student Perspectives on Effective Teaching Techniques and Outstanding Teachers, *Journal of Scholarship of Teaching and Learning*, 7(2): 32-48.
- 2007 Chen, X. M. (2007). GIS and Remote Sensing in Environmental Risk Assessment. In the Encyclopedia of Information Science and Technology, 2nd Ed.
- 2006 Chen, X. M., Parrott C., and Johnson K. (2006). Key Aspects in Community-Based Coastal Emergency Response GIS. In the Proceedings of 2006 IRMA International Conference – *Emerging Trends and Challenges in Information Technology Management*, pp. 114-117.
- 2006 Stribling, J. M. Glahn, O. A., Chen, X. M., and Cornwell, J. C. (2006). Microtopographic variability in plant distribution and biogeochemistry in a brackish marsh system. *Marine Ecology Progress Series* 320: 121-129.
- 2006 Chen, X. M., Parrott C., and Johnson K. (2006). Key Aspects in Community-Based Coastal Emergency Response GIS. In the Proceedings of 2006 IRMA International Conference – *Emerging Trends and Challenges in Information Technology Management*, pp. 114-117.
- 2005 Chen, X.M., Yang, C., and Chen, S. (2005). Evolution and Computing Challenges of Distributed GIS. *Journal of Geographic Information Sciences*, 11(1), 61-70.
- 2005 Chen, X.M. (2005). PowerPoint Lecture Outline, in Instructor Resource Center CD, In the *Introduction to Environmental Geology*, 3rd ed., 2005, Prentice Hall.
- 2003: Chen, X.M., Johnson, K., Parrott, C., McAllister, M., Skeeter, B., and Zaprowski, B. (2003). Developing a county-level GIS system for coastal emergency planning and management: problems and promises. In the Proceedings of the 13th Biennial Coastal Zone Conference. NOAA/CSC/20322-CD. Charleston, SC: NOAA Coastal Services Center.
- 2003 Chen, X.M., Lawler, E., and Venso E. (2003). Improving Teaching and Learning: Students' Perspectives. In C. Wehlburg & S. Chadwick-Blossey (Eds.), *To Improve The Academy*, Volume 21: Resources for faculty, instructional, and organizational development (pp. 238 – 254). Boston, MA: Anker.
- 2001 Chen, M. X., Lawler, E. & Venso, E. (2001). Student perspectives on science teaching and learning. *Mast Rapper*, 26(4), 18-31.

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- 1999 Chen, X.M., Harris, D., Folkoff, M., Drudge, R., and Jackson, C. (1999). Developing a collaborative GIS in social services. *Geo Info Systems*, 9(7): 44-47.
- 1998 Chen, X. M. (1998). Integrating GIS Education with Training: A Project-Oriented Approach. *Journal of Geography*, 97: 261-268.

OTHER PUBLICATION:

- 2022 Chen X. M., Cawthern T., Jones, S. and Namwamba, F. [*Physical Geology: Lab Exploration*](#). 3rd ed. Kendall Hunt Publishing.
- 2018 Chen X. M. and Cawthern T. [*Physical Geology: Lab Exploration*](#). 2nd ed. Kendall Hunt Publishing.
- 2015 Chen X. M. and Cawthern T. [*Physical Geology: Lab Exploration*](#). Kendall Hunt Publishing.

SELECTED GRANT/CONTRACT:

- 2011 Co-Project Director, along with Robeck E., Sharma A., and Harris D: Project to Enhance Core Learning through Integrated Problem Solving Experiences (Project ECLIPSE), Submitted to the Maryland Higher Education Commission. \$180,000. (PI: Dr. Edward Robeck)
- 2010 Co- Investigator, along with Ed Robeck (PI), Andrew Sharma and Dan Harris, *Coordinated Resource Innovations for Systems Thinking in Environmental Literacy (Project CRISTEL)*, submitted a pre-proposal to NOAA's ELG (Environmental Literacy Grant) program, \$1.49 million. Not funded
- 2010 Co- Investigator, along with Ed Robeck (PI), Andrew Sharma and Dan Harris *IMPACT Learning*, submitted to the Gates Foundation for \$249,000, not funded
- 2010 Co-Project Director, along with Robeck E., Quan J., Sharma A., and Harris D., Eastern Shore Partnership for Real-world Information Technology in Science Using Scientific Visualization (ESPRIT Science SV). \$116,000, funded by MHEC, 2008-2010.
- 2009 Co- Project Director, along with Drs. Ed Robeck (PI) and Jim Quan, Eastern Shore Partnership for Real-world Information Technology in Science (ESPRIT Science). \$76,541, funded by MHEC, 2007-2009
- 2006 Participant: along with Drs. Betty Lou Smith (PI), Michael Folkoff, Joseph Howard, Brent Zaprowski, Title II Math Science Partnership Grant: Eastern Shore Science Academy. \$10,000, funded by the Department of Education. Summer of 2006
- 2004 Principal Investigator: Somerset County Health Department GIS database development, Phase III, \$10,000, September 15, 2003 – June 30, 2004.
- 2003 Principal Investigator: Somerset County Health Department GIS database Phase II, \$4,000, which funded two students' research in the spring and summer of 2003.

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- 2003 Co-Recipient: along with Michael Folkoff & Michael Scott, Richard A. Henson School Faculty Enhancement grant, GIS adaptation Trend in U.S. Geography Programs: A Survey, \$750. 2003.
- 2002 Co- Principal Investigator: along with Karin Johnson, Brent Skeeter, Brent Zaprowski, Development of An Emergency Management GIS Database for Somerset County Health Department, \$10,000, funded by Somerset County Health Department, Maryland. May 2002 - June 2003
- 1999 Co-Investigator, along with Mike Scott, Mike Folkoff, and Dan Harris, Welfare-to-Work Initiative: TEA 21—Developing A GIS Model For Regional Transportation Routing, \$50,000, funded by Maryland Department of Human Resources and U.S. Department of Transportation, July 1999- June 2000.
- 1998 Principal Investigator: along with Chapman McGrew and Brent Skeeter, Geography Computing Lab, \$52,054, funded by National Science Foundation, 1998-2000.
- 1998 Co-Investigator, along with Mike Folkoff and Dan Harris, Wicomico County Social Service GIS, \$40,000, funded by Maryland Department of Human Resources and Wicomico County Department of Social Services, 1998.
- 1995 Recipient: *Complimentary GIS lab-kit software*: PC ARC/INFO version 3.4.2 and ArcView 3.0. Commercial value \$22,450. ESRI, Inc., California.

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