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:

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

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

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/jojph/JOJPH.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

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.

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***. 3nd 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.

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, July1999- 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.