

# Christa R. Haney, Ph.D. – Curriculum Vitae

---

Assistant Clinical Professor, Mississippi State University, Dept. of Geosciences  
Hilbun Hall, MSU Main Campus, Starkville, MS | (662) 325-0737 | Haney@geosci.msstate.edu

## Research Interests

Intersection of human health with natural hazards, water & environmental pollution; Impact of winter weather on human health; Water & environmental pollution and environmental justice

## Formal Education

### PH.D. | MAY 2017 | MISSISSIPPI STATE UNIVERSITY

- Major: PhD in Earth and Atmospheric Science
- Dissertation: Winter weather hazards: Injuries and fatalities associated with snow removal

### MS. | DECEMBER 1999 | MISSISSIPPI STATE UNIVERSITY

- Major: MS in Geosciences
- Concentration: Broadcast Meteorology

### BA. | MAY 1997 | UNIVERSITY OF WINDSOR (CANADA)

- Major: BA in Geography
- Thesis: Impact of ENSO on Tropical cyclone activity in the Eastern Pacific Basin

## Professional Positions

|                       |  |
|-----------------------|--|
| Aug. 2023 – Present   | Director, Geosciences Distance Learning Programs, Mississippi State University |
| Jan. 2019 - Present   | Assistant Clinical Faculty, Dept. of Geosciences, Mississippi State University |
| Jan. 2000 - Dec. 2018 | Instructor, Dept. of Geosciences, Mississippi State University                 |
| Jan. 1998 - Dec. 1999 | Graduate Assistant, Dept. of Geosciences, Mississippi State University         |
| Summer 1997           | Internship, Ontario Ministry of the Environment, Windsor, Ontario, Canada      |

## Honors & Certifications

- Oceans Observatories Initiative (OOI) Community Member (Since February 2024)
- University Professional & Continuing Education Association (UPCEA) Professional, Continuing and Online Educator Award – Southern Region (November, 2022)
- Mississippi State University's Center for Distance Education Excellence in Online Teaching Award (May, 2022)
- Quality Matters Certification in Online Teaching (April, 2021)

## Teaching Experience

- Development of over 20 Geoscience courses for both on-campus and distance learning at both the undergraduate and graduate level.
- Regularly update courses to include timely and relevant topics that are related to course content and that apply geoscience principles being taught.

- Implement teaching “Best Practices” and innovative technologies that are learned through various professional conferences and workshops.
- Innovative use of authentic data sets, technology, and media resources across courses to enhance student engagement, broaden student skill sets and offer a diversity of student experiences.
- Leverage topics covered in the media to relate course material to current events and to show how Geosciences are applicable across sub-disciplines.
- Able to manage large classes and to handle difficult students and politically charged topics with tact, diplomacy, and professionalism.
- Have led field courses and provided geoscience expertise on Field Methods trips: Yellowstone, Mammoth Cave, Western Washington, New England and abroad (Bahamas and Canada); have also assisted in the development of Virtual Field Methods for students who are unable to complete field work in person (COVID etc.).
- Offer support in creating and grading capstone courses, comprehensive exams, certificate exams, workshop presentations for graduating seniors and graduate students.
- Completed inaugural MIWE faculty workshop and have incorporated additional scientific writing in the classroom.

• **Undergraduate Courses Developed\*\* & Taught: (Online modality except where indicated)**

|   |   |
|---|---|
| GR 4863 Forensic Geoscience**                     | GG 3613 Water Resources   |
| GG 4333 Geowriting                                | GG 3603 Introduction to Oceanography                              |
| GR 4633 Statistical Climatology                   | GR 4603 Climatology   |
| GR 1114 Physical Geography (on campus and online) | GR 4613 Applied Climatology                                       |
| GR 1123 World Geography                           | GR 4502 Practicum in Broadcast Meteorology (on campus and online) |
| GR 1503 Intro to Meteorology                      | GR 4863 Forensic Geoscience                                       |

• **Graduate Courses Developed\*\* & Taught: (Online modality except where indicated)**

|   |                           |
|---|---------------------------|
| GR 6863 Forensic Geoscience**   | GG 8503 Landforms         |
| GR 8553 Research Methods  | GR 8633 Climate Change    |
| GG 8233 Environmental Geoscience  | GG 8333 Planetary Science |
| GR 8400 Field Methods in Geoscience (Yellowstone, Bahamas, New England) | GR 6113 Meteorology I     |
| GR 8410 Local Field Methods   | GR 6123 Meteorology II    |
| GR 8423 Virtual Field Methods   |                           |

| All courses taught in the online modality except where indicated** |  |                              |
|--|--|------------------------------|
| Term   | Course   | Role                         |
| Fall 2024  | On the Master Schedule for Environmental Geosciences and Forensic Geoscience | Assistant Clinical Professor |
| Summer 2024  | Intro to Oceanography (2 sections)   | Assistant Clinical Professor |
| Spring 2024  | Research Methods   | Assistant Clinical Professor |

|             |   |                              |
|-------------|---|------------------------------|
|             | Forensic Geoscience                         | Assistant Clinical Professor |
| Fall 2023   | Environmental Geoscience                    | Assistant Clinical Professor |
|             | Forensic Geoscience                         | Assistant Clinical Professor |
| Summer 2023 | Intro to Oceanography (2 sections)          | Assistant Clinical Professor |
|             | Geowriting                                  | Assistant Clinical Professor |
| Spring 2023 | Research Methods (2 sections)               | Assistant Clinical Professor |
|             | Water Resources (2 sections)                | Assistant Clinical Professor |
|             | Forensic Geoscience                         | Assistant Clinical Professor |
| Fall 2022   | Environmental Geoscience (2 sections)       | Assistant Clinical Professor |
|             | Statistical Climatology (2 sections)        | Assistant Clinical Professor |
|             | Forensic Geoscience                         | Assistant Clinical Professor |
| Summer 2022 | Intro to Oceanography (2 sections)          | Assistant Clinical Professor |
|             | Geowriting                                  | Assistant Clinical Professor |
|             | Virtual Field Methods                       | Assistant Clinical Professor |
| Spring 2022 | Research Methods (2 sections)               | Assistant Clinical Professor |
|             | Water Resources (2 sections)                | Assistant Clinical Professor |
|             | Forensic Geoscience                         | Assistant Clinical Professor |
|             | Geowriting (Winter Intersession)            | Assistant Clinical Professor |
| Fall 2021   | Environmental Geoscience (2 sections)       | Assistant Clinical Professor |
|             | Statistical Climatology (2 sections)        | Assistant Clinical Professor |
|             | Forensic Geoscience                         | Assistant Clinical Professor |
| Summer 2021 | Intro to Oceanography (2 sections)          | Assistant Clinical Professor |
|             | Geowriting                                  | Assistant Clinical Professor |
|             | Virtual Field Methods                       | Assistant Clinical Professor |
| Spring 2021 | Research Methods (2 sections)               | Assistant Clinical Professor |
|             | Water Resources (2 sections)                | Assistant Clinical Professor |
|             | Forensic Geoscience                         | Assistant Clinical Professor |
|             | Geowriting (Winter Intersession)            | Assistant Clinical Professor |
| Fall 2020   | Environmental Geoscience (2 sections)       | Assistant Clinical Professor |
|             | Statistical Climatology (2 sections)        | Assistant Clinical Professor |
|             | Special Topics in GR – Forensic Geosciences | Assistant Clinical Professor |
| Summer 2020 | Intro to Oceanography (2 sections)          | Assistant Clinical Professor |
|             | Geowriting (2 sections)                     | Assistant Clinical Professor |
| Spring 2020 | Research Methods (2 sections)               | Assistant Clinical Professor |
|             | Water Resources (2 sections)                | Assistant Clinical Professor |
|             | Special Topics in GR – Forensic Geosciences | Assistant Clinical Professor |
| Fall 2019   | Environmental Geoscience (2 sections)       | Assistant Clinical Professor |
|             | Statistical Climatology (2 sections)        | Assistant Clinical Professor |

|   |                                       |   |
|---|---------------------------------------|---|
| Summer 2019   | Intro to Oceanography (2 sections)    | Assistant Clinical Professor                |
|   | Geowriting (2 sections)               | Assistant Clinical Professor                |
| Spring 2019   | Research Methods (2 sections)         | Assistant Clinical Professor                |
|   | Water Resources (2 sections)          | Assistant Clinical Professor                |
| Fall 2018   | Environmental Geoscience (2 sections) | Instructor                                  |
|   | Statistical Climatology (2 sections)  | Instructor                                  |
| Summer 2018   | Intro to Oceanography (2 sections)    | Instructor                                  |
|   | Geowriting (2 sections)               | Instructor                                  |
| Spring 2018   | Research Methods (2 sections)         | Instructor                                  |
|   | Water Resources (2 sections)          | Instructor                                  |
| Fall 2017   | Environmental Geoscience (2 sections) | Instructor (with Dr. Rodgers as IOR)        |
|   | Statistical Climatology (2 sections)  | Instructor                                  |
| Summer 2017   | Intro to Oceanography (2 sections)    | Instructor                                  |
|   | Geowriting (2 sections)               | Instructor                                  |
| Spring 2017   | Research Methods (2 sections)         | Instructor (with Dr. Sherman-Morris as IOR) |
|   | Water Resources (2 sections)          | Instructor                                  |
| From 1/1/2000 to 12/31/2016, taught variety of undergraduate courses as an Instructor (both online and on campus as required) |                                       |   |

## ACADEMIC ADVISING

- Provide quality academic advising for around 20 students a year: both face-to-face, via email and Webex when necessary.
- Establish early and ongoing rapport with advisees so that they know that I am a supportive ally who is invested in their academic success.
- Assist and advise students as their needs change from the recruitment phase through their graduation from MSU and beyond (career, graduate school etc.).
- Knowledgeable in university policies, college and departmental requirements, program structure, prerequisites, support resources etc. and can direct students accordingly.
- Adapt to changing curriculum modifications and changing student needs over the course of their program of study.
- In addition to assisting students with appropriate scheduling, I offer career planning and professional advice by encouraging professional memberships, networking and research, co-op placements and internships etc.
- Work hard to help students overcome setbacks through creative problem solving, liaising with other faculty and departments to improve graduation rates.
- Assist advising coordinators on appropriate course substitutions by reviewing external course syllabi, degree transcripts etc.
- **Have advised (and graduated) the following master's thesis students:**
  - Amanda Mayo (2023): The use of Omeka in promoting Geoliteracy (Committee member)

- Charlie Bills (2023): Trace Metal Analysis of Pond Sediments to Measure Deposition from a Coal-fired Power Plant in Ackerman, MS (Committee member)
- Jay Roberts (2022) The effects of incorporating 0-500 m Storm Relative Helicity in the Violent Tornado Parameter (Committee member)
- JD Cox (2021) Use of consumer grade small unmanned aerial systems for mapping storm damage in forested environments (Committee member)
- K. Delia (2020) Spatial analysis of a Chesapeake Bay sub-watershed: How land use and precipitation patterns impact water quality in the James River (Main advisor)
- Michelle Lewis (2019) An analysis of the effects of climatic oscillations and hurricane intensification on the destructiveness of Gulf Coast hurricane landfalls (Committee member)
- Currently advising or serving on the following graduate committees for master’s thesis students
  - Jamie Ketts (2024): Topic TBD (Main advisor)
  - Ginger Trochesset (2024): Meeting Growing Water Demand in and around Stennis Space Center in Hancock County, MS (Committee member)

## **PROFESSIONAL WORKSHOPS AND TRAINING**

- Regularly attend Center for Distance Education (CDE) and Center for Teaching and Learning (CTL) workshops for professional training and to learn new technologies, applications and ‘Best Practices’ in online instruction.
- **2024**
  - Ocean Observatories Initiative (OOI) Mid-Atlantic Workshop in June 2024 (Wilmington, NC)
  - CDE Online Showcase Presenter and Participant (Apr. 25<sup>th</sup>, 2024, in Ballroom ‘U’ of MSU Union)
  - CDE Community of Practice Event - To Discuss Optimal Strategies for Online Instruction and Course Development (March 21, 2024, in Old Main 2130)
  - Ocean Observatories Initiative (OOI) Data Labs Workshop in February 2024 (New Orleans)
- **2023**
  - CDE Self-paced training course on ‘Basic Accessibility for Online Courses’ (Completed in Feb. 2023)
  - CDE Online Course and Tools Showcase (March 29<sup>th</sup>, Student Union Ballroom M)
  - CDE MSU Online Community of Practice session (April 27, Union 325)
  - Industrial Technology, Instructional Design, and Community College Leadership (ITIDCCL) Department’s Virtual Reality (VR) Explorations experience (Oct. 3<sup>rd</sup>, 1-2 pm, Industrial Education Building Room 203)
  - CTL Workshop: Generative AI in the Classroom – A Roundtable Discussion (Oct. 25<sup>th</sup> at 11:30, Grisham Room of Mitchell Memorial Library)
- **2022**
  - CDE Community of Practice, ‘How well do you know your students?’ (Feb. 10, Coskrey Auditorium)
  - Publish and Flourish: Grant and Journal Writing with Dr. Tara Gray (Feb. 15 via Webex)
  - CDE Community of Practice Topic: ‘Teaching Philosophy’ (Apr. 21, Coskrey Auditorium)
  - ORED ‘How to Write Winning Grant Proposals’ by Dr. John Robertson (Apr. 5<sup>th</sup>, The Mill)
  - CDE Community of Practice Topic: Developing your Teaching Philosophy (Apr. 21st, Coskrey Auditorium)
  - CDE’s Instructional Design and Dine event where Community College online experts discussed their online course design with tips and best practices in online instructions (Sept. 14th, Coskrey Auditorium)
  - Designing effective low stakes writing assignments in your class: roundtable & luncheon (Oct. 19<sup>th</sup>, Grisham room in Mitchell Library)

- CTL Almost hassle-free responding to and grading student writing: roundtable & luncheon (Nov. 16<sup>th</sup>, Grisham room in Mitchell Library)
- **2021**
  - CDE workshop, ‘Effective Lecturing in Online Courses’ (Sept. 2, Webex)
  - CDE Community of Practice, ‘Using Failure to Promote Success’ (Sept. 16, Coskrey Auditorium)
  - NAGT Geosciences Traveling Workshop (Sept. 30-Oct. 1, SSRI)
  - CDE Community of Practice, ‘Best practices for working in large online classes’ (Nov. 11<sup>th</sup>, Coskrey Auditorium)
  - CTL workshop, ‘How to Document Teaching Effectiveness’, (Dec. 3, Colvard Student Union #325)
- **2020**
  - CDE Community of Practice, ‘State your purpose: How do we focus in and on learning outcomes?’ (Feb. 7<sup>th</sup>, Webex)
  - Grant writing workshop sponsored by College of A&S (NSF, NIH) (Feb. 12<sup>th</sup> at The Mill)
  - CDE Community of Practice, ‘Picture this: how do we make courses that look good’ (March 6<sup>th</sup>, Coskrey Auditorium)
  - CDE Lunch and Learn, ‘Best Practices from MSU’s 1<sup>st</sup> CDE Online Teaching Award Winner, Dr. Joon Lee (Feb. 25<sup>th</sup> in Coskrey Auditorium)
  - Diversity workshop led by Dr. Kumea Shorter-Gooden, ‘Inclusive Pedagogy: How to Effectively Engage Diverse Students’ (Sept 15<sup>th</sup>)
  - Diversity workshop led by Dr. Kumea Shorter-Gooden, ‘Implicit Bias: What it is and what we can do about it?’ (Sept. 16<sup>th</sup>)
  - CTL Teaching Series Panel Discussion ‘Reflective Teaching’ (Sept. 22<sup>nd</sup>)
- **2019**
  - NAGT Early Career Workshop (July 28-Aug 2 at U of Maryland)
  - CTL Teaching Portfolio Workshop (May)
  - ‘Navigating the Honor Code’ luncheon (Jan 22<sup>nd</sup>, Grisham Room)
  - Community Engaged Learning Presentation, ‘Designing and designating a community-engaged learning course’, (Feb. 7<sup>th</sup> Eli/Giles classroom of Mitchell Memorial Library)
  - CDE, ‘Using Arc effectively in Canvas’ training by Instructure (Feb. 15<sup>th</sup>)
  - Meeting of MSU Canvas Users, ‘Pedagogical Strategies on ways to Improve Teaching with Canvas’, (Feb. 22<sup>nd</sup>)
  - Higher Education Digital Content conference (Apr. 17, Coskrey Auditorium)
  - CTL and Library Digital Media Center ‘The Realities of Teaching in a Virtual World’ (CTL, Library Digital Media Center)
  - CDE Community of Practice, ‘Why do we want to teach online?’, (Sept. 13, Board Room, Memorial Hall)
- **2018**
  - CTL workshop to learn how to best accommodate veterans, ‘Helping Veterans Transition to the Classroom’ (Feb. 6 )
  - Green Zone training on how to best support military students (April 25<sup>th</sup>, Center for Americas Veterans)
  - Member of MSU’s Canvas Pilot Training Group (Summer 2018)
  - CDE Lunch and Learn, ‘Quality Matters Standards for Higher Education, (Sept. 5<sup>th</sup>, Coskrey Aud.)
  - CTL Luncheon presentation: Political Ideology in the Classroom & panelist for a discussion (Sept. 12, Grisham Room)
  - Ally Training, ‘Building Allies and Supportive Environments for LGBTQ students’ (Oct. 8<sup>th</sup>, Union Ballroom)
  - Panel member, ‘What I learned in Canvas As part of the Canvas Pilot Group’ (Oct. 25<sup>th</sup>)
  - Library Workshop, MSU as part of ‘The Conversation’ with Dr. Deborah Lee (Fall 2018 Rm 1405 MSU)

## RESEARCH AND PUBLICATIONS

- Delia, K. A., **Haney, C. R.**, Dyer, J. L., & Paul, V. G. (2021). Spatial Analysis of a Chesapeake Bay Sub-Watershed: How Land Use and Precipitation Patterns Impact Water Quality in the James River. *Water*, 13(11), 1592.
- **Haney, C. R.** (2020). Beyond “Snow Shoveler's Infarction”: Broadening perspectives on winter health risks. *Geography Compass*, 14(7), e12494
- **Haney, C. R.** (2017). Winter weather hazards: injuries and fatalities associated with snow removal. Mississippi State University Libraries (Doctoral Dissertation)
- Dixon, P. G., Sinyor, M., Schaffer, A., Levitt, A., **Haney, C. R.**, Ellis, K. N., & Sheridan, S. C. (2014). Association of weekly suicide rates with temperature anomalies in two different climate types. *International journal of environmental research and public health*, 11(11), 11627-11644.

## RESEARCH PRESENTATIONS

- **Haney, C. and Lalk, S. (2024)**: Abstract submitted to CAST for Environmental Earth Sciences – Experiential Learning with Community Interactions (San Antonio, TX, Fall of 2024)
- **Haney (2024)**: Exploration of Local Geoscience and Data Use in an Online Water Resources Course at MS Academy of Sciences, Hattiesburg, MS (Feb. 2024)
- **Haney (2024)**: How to Humanize an Online Course. (CDE Online Showcase, Apr. 2024 2-4 pm, MSU Union Room ‘U’)
- **Haney (2023)**: Political Ideology in Geosciences: Strategies for Teaching in Divisive Times at NSTA National Conference in Atlanta, GA (March 2023)
- **Haney, C. and Nagel, A. (2023)**: Quality Matters: Our Experiences in Building Online College Courses to be Quality Matters-certified at NSTA National Conference in Atlanta, GA (March 2023)
- **Haney (2023)**: Active Learning Strategies in Large Online Classes at MS Academy of Sciences, Biloxi, MS (Feb. 2023)
- **Haney (2022)**: CDE’s Online Showcase demonstrating active learning strategies to MSU faculty (Oct. 18<sup>th</sup>, 2022, Coskrey Auditorium 9-11 am and 2-4 pm)
- **Haney (2022)**: Exploration of Local Geoscience in an Online Water Resources Course presented at SASTE (Oct. 6-8, 2022, Gulf Shores, AL)
- **Haney (2022)**: Active Learning Strategies in a large Online class presented at NSTA National Conference in Houston, TX (Apr. 2022)
- **Haney (2021)**: Increasing the Use of Active Learning Strategies in a Large Online Class presented at SE GSA (April 2021 - Virtual Conference due to COVID)
- **Haney (2019)**: CDE Panel Member for CDE Faculty Panel Series the Instructional Design Team and the Center for Distance Education (CDE) on ‘What it is like to teach online’ (Coskrey Auditorium, Oct. 13<sup>th</sup>, 2019)
- **Haney (2019)**: Reimagining Hazards during Old Man Winter: Injuries and Fatalities Associated with Snow Removal. Presented at NWA National Meeting in Aug. 2019 (Huntsville, AL)
- **Haney (2018)**: Panelist for “What we learned: A Panel Discussion of Canvas Pilot Group Members (Fall 2018)
- **Haney (2018)**: Presented at CTL Luncheon: Political Ideology in the Classroom: strategies for teaching controversial topics in a divisive political environment (Sept. 12, Grisham Room)
- **Haney (2018)**: Presented on Relevant Topics in Environmental Science and Water Resources (BOMP Workshop in Summer 2018: Coskrey Auditorium)
- **Haney (2018)**: Talk at East Webster Elementary, ‘Weather Instrumentation and Use of Weather/Climate Data in the Classroom (Middle School Science for 5<sup>th</sup> Grade State Test)’, (Feb. 16, 2018)

- **Haney (2017):** SEDAAG, 'Winter weather injuries & mortality associated with snow removal' (Fall 2017 at The Mill, MSU)

## INVITED AND GUEST SPEAKER PRESENTATIONS

- Invited Speaker: The Utility of Forensic Geoscience. **Western Michigan University** Seminar Course (April 3<sup>rd</sup>, 2023, via Webex)
- Guest Lecturer: Local weather observations, sky conditions and forecasting. Weather Club at Starkville Partnership School ( Feb. 16, 2024).
- Guest Lecturer: Issues and Current Affairs in Canada for Dr. Rodgers' Geography of North America course (Nov. 28, 2023)
- Guest Lecturer: Q&A on What it was like to live in Canada for Dr. Rodgers' Geography of North America (Dec. 2022)
- Guest Lecturer: Marine Sediments for Dr. Skarke's Intro to Oceanography course (Sept. 11, 2019)
- Guest Lecturer at East Webster Elementary. Air Pressure and Weather (to help 5<sup>th</sup> graders better understand state science standards). Ms. Robin Brand – Teacher (Spring, 2019)
- Guest Lecturer at East Webster Elementary. Rocks and Minerals Lecture and Specimen Show and Tell (to help 2<sup>nd</sup> graders better understand state science standards) (Spring, 2017)

## GRANTS

- Otilie Schillig Special Teaching Projects Program Grant (2023) Digital Microscopy Applications in the Geosciences. Grant was used to purchase handheld digital microscopes (proscopes) for use in the classroom (online and on campus), in outreach (Science Night at the Museum, Physics Autism Spectrum Camp) and research (Natalya Usachenko fossil specimens 2024). Award of \$1190.00
- Submitted NSF Grant (May 2022) Geosciences Learning Ecosystems Alliance of Mississippi (GLEAMS): A Community Engaged Pathway to Broadening Geosciences Diversity in Mississippi (\$300,000) (Not awarded)
- Diversity Committee Grant: Inclusion through Innovation grant to support 'Coffee with a Prof' (\$750) (Dr. Fik Winata and the Diversity Committee)
- Otilie Schillig Special Teaching Projects Program Grant to construct an Outdoor Geosciences Classroom (2022) Not Awarded
- Otilie Schillig Special Teaching Projects Program Grant (2003) Awarded \$2500 to Purchase Atlases, Globes, and Earth-Sun Model for Physical Geography

## PROFESSIONAL MEMBERSHIPS

- National Science Teachers Association (NSTA)
- National Weather Association (NWA)
- Society of College Science Teachers (SCST)
- Southeastern Division of the Association of American Geographers (SEDAAG)

## SERVICE AND OUTREACH

### Professional Organizations

- **Board Member, Society for College Science Teaching (SCST)**(2023-present). Helping to re-establish the award for Outstanding Undergraduate Teaching Award at the college-level. Other duties include:



- Supervise the production and distribution of all formal publications of the Society, including the Newsletter.
- Collaborate with the Webmaster and Social Media Coordinator.
- Make recommendations to the Executive Board on publication policies, schedules, style, appearance, and budget.
- Attend to such other matters pertaining to the publications of the Society.
- **NAGT Co-representative for the State of Mississippi**, select the State's Outstanding Earth Science Teacher of the Year (2020-present); on board to select the regional (SE USA) Outstanding Earth Science Teacher (2023)

## Mississippi State University

- **CTL Maroon Academy recordings** of course walk-throughs to demonstrate Leveraging Canvas for Learning: Course Organization and Navigation (Module 3) and Student Progress and Assessment (Module 5) for MSU's Maroon Academy (Summer 2024)
- **CTL Maroon Academy interviews** on best practices in online teaching to demonstrate Leveraging Canvas for Learning: Course Organization and Navigation (Module 3), Communication and Engagement (Module 4) and Student Progress and Assessment (Module 5) for MSU's Maroon Academy (Summer 2024)
- **CTL Teaching Portfolio** – contributed my Teaching Philosophy and other documents for CTL's Teaching Portfolio Workshops
- **Member of CDE's Community of Practice** to improve online education and course design at MSU (2022 - present) and to implement Quality Matters Certification in courses across campus.
- **Member of MSU's Library Committee** which serves as a liaison among the MSU library and faculty, staff, and students (2023 - present)
- **Served on the CDE Award Selection Committee** to help identify CDE's Online teaching award recipient for 2023.
- **Invited Member of MSU's Credit Hour** revision working group (led by Dr. Dana Franz)
- **International Fiesta** help set up and take down flags (Apr. 4th, 2023, Apr. 2<sup>nd</sup>, 2022), food judge (Apr. 9<sup>th</sup>, 2019)
- **GEM Grad Lab event** lunch and promoting Geoscience to attendees (Union Ballroom from 12:30 to 1:30pm on Saturday, Sept. 17<sup>th</sup>, 2022). The National GEM Consortium enhances the nation's human capital by increasing the participation of underrepresented groups (African Americans, American Indians, and Hispanic Americans) at the master's and doctoral levels in engineering and science (Sept. 16 & 17)
- **Member of COVID Team** to assist A&S Faculty move to emergency online learning at the start of the pandemic (Spring, 2020)

## Department of Geosciences

- **Director, Geosciences Distance Learning Programs**; responsible for recruitment, MSU reports, student surveys to improve programs, provide promotional products, revise/update lectures for online courses, quality-control Certification Exam etc.
- **Member of the Strategic Planning Committee**: develops short-, medium-, and long-term goals and identifies strategies to ensure the growth, sustainability and success of the department; writes the 2024 Strategic Plan for the Department of Geosciences.
- **Member of Geosciences Distance Learning Oversight Committee** (DLOC) which oversees distance learning issues and seeks to resolve student issues related to our online programs.
- **Member of the Awards Committee**: review award proposals, identify appropriate award candidates within the department, gather and submit award nomination packet.
- **Search Committee Chair** for Distance Learning Instructor Candidate (Summer 2024)

- **Served on 3 search committees:** Risk position, World Geography Instructor, and Climate position (2023)
- **Member of the Diversity (OAR) Committee:** opportunity, access, and retention in the Geosciences
- **Physics Autism Camp** – assisted in Geosciences Day for the Physics Autism Spectrum Camp (Jun. 11, 2024)
- **Science Night at Museum** for MSU’s Museums and Galleries. Organize Digital Microscopy Activity and assist with set-up and clean-up (Feb. 15<sup>th</sup>, 2018, Feb. 8, 2019, Feb. 20<sup>th</sup>, 2020, Feb. 10<sup>th</sup>, 2021, Feb. 19, 2022, and Feb. 18, 2024).
- **Fossil Day for Dunn-Seiler Museum:** Recording of Favorite Fossil for National Fossil Day (Oct. 13, 2021)
- **Designed the Geosciences Template** for Online Courses via Canvas. Liaised and consulted with CDE to develop the template throughout 2020. Template went live in 2021.
- **Panel discussion of Canadian Faculty** regarding culture of Canada for Dept. of Geosciences Geography of N. America class (MSU’s MaxxSouth Studio, July 2021)
- **Served as Earth Day judge** for local schools (Apr. 18, 2019, to present) Topics: Use recycled materials to reconstruct an endangered or extinct organism from Mississippi (2023) and Plastic Creative Challenge (2024)
- **Served on Departmental Governance Document Task Force** to rewrite and update our department’s governance document (2018-19).
- **Geosciences graduate showcase.** Assist in promoting the department to prospective graduate students (Feb. 13-15, 2019, and Feb. 2020)
- **The ‘Big Event’:** Represented Geosciences at Salvation Army, and served food to other volunteers at The ‘Big Event’ (Mar. 30<sup>th</sup>, 2019)
- Promote Geosciences distance learning programs at various events, conferences, and professional meetings.

### Community Service/Informal Education Service

- **Starkville Public Library STEAM Summer Camp:** presentation on clouds and their use in forecasting with follow-up art activity (July 8, 2024, and June 5, 2023).
- **Local Schools:** Community engagement with local school. (East Webster Elementary School’s STEM Night booth on Apr. 4, 2019, and demonstrations for geology and meteorology), East Webster High School (Robotics Club – Use of Robotics in various environments) and Choctaw County School District Grant (Partner for Geosciences Education)
- **Community service** and engagement in the Geosciences: faculty representation as a regional science fair judge, school talks for a variety of geosciences topics, mentor and give interviews for geoscience career info etc.
- **Proctor** for middle school Perennial Math club at Milam Elementary in Tupelo, MS (Mar. 2<sup>nd</sup>, 2019)

### ORGANIZATIONS AND PROFESSIONAL MEMBERSHIPS

- National Weather Association (NWA)
- National Science Teacher Association (NSTA)
- National Association of Geosciences Teacher (NAGT)
- Society of College Science Teachers (SCST)
- Geological Society of America (GSA)

## **TECHNOLOGY**

- Experienced in the use of Canvas, myCourses, BlackBoard, WebCT, and other learning management systems (LMS) for both distance learning and on-campus education.
- Innovative use of myCourses, Canvas: added group discussions, Peer review, use Studio(Arc) to deliver student presentations etc.
- Regularly update course materials to provide current and relevant information and to minimize academic dishonesty.
- Use Camtasia, Studio(Arc) and other computer technology to adapt teaching methods to online course delivery.
- Proficient in GIS packages (ArcGIS, QGIS), database management software (Microsoft Access), SQL querying.
- Built a relational database of Atlantic Basin hurricane data (HURDAT corrected data) from 1856-2005.