

**Vitae**  
**Dr. Marcus Gillespie**  
**Sam Houston State University**  
**Huntsville, Texas**  
**2018**

**EDUCATION**

- Ph.D. Geography  
Texas A&M University, College Station, Texas, 1992.  
Dissertation Title: "The Nature of Channel Planform Change: Brazos River, Texas."
- M.A. Geography  
University of Wyoming, Laramie, Wyoming, 1987.  
Thesis Title: "The Impact of Military Maneuvers on Eolian Transport and Soil Compressive Strength in South Central New Mexico."
- B.A.T. Earth Science  
Sam Houston State University, Huntsville, Texas, 1981.
- B.S. Psychology  
Sam Houston State University, Huntsville, Texas, 1981.

**Faculty and Administrative Positions**

- Interim Chair of the Department of Agricultural Sciences, Sam Houston State University, July, 2017 to May 31, 2018
- Associate Dean of Assessment and Curriculum for the College of Sciences, 2011 - present
- Associate Professor of Geography, Sam Houston State University, Huntsville, Texas, 2002-present
- Chair, Dept. of Geography and Geology, Sam Houston State University, Huntsville, Texas, 2002-2007
- Associate Professor, Dept. of Geology and Geography, Northwest Missouri State University, Maryville, Missouri, 2001-2002.
- Chair, Dept. of Geology and Geography, Northwest Missouri State University, Maryville, Missouri, 2000-2002.

Assistant Professor, Dept. of Geology and Geography, Northwest Missouri State University, Maryville, Missouri, 1994-2001.

Visiting Assistant Professor, Dept. of Geography and Geology, University of Missouri, Kansas City, Missouri, 1992-1993.

Physical Geography Instructor, Dept. of Geography, Texas A&M University, College Station, Texas, 1989-1992.

Earth Science Teacher, Washington Jr. High, Conroe, Texas, 1984-1985.

Science Teacher (Astronomy, Physics, Biology, Life Science, and Psychology) Manor School, Christiansted, St. Croix, United States Virgin Islands, 1983-1984.

Psychology Instructor, Sam Houston State University, Huntsville, Texas, 1981-1982.

## **COLLEGE COURSES TAUGHT**

Conservation of Natural Resources	Maps and Map Interpretation	Freshman Seminar
Introduction to Geography	Geomorphology	Senior Seminar
Climatology	Soil Science	Intro. to Psychology
Meteorology	People and Cultures	Weather & Climate
Earth Science	Earth Science (web course)	Honors (Clim. chg.)
Foundations of Science	Honors (Sustainability)	
Study Abroad (5 courses)		

## **TEACHING AWARDS**

Nominated by Department Chair for Graduate Instructor Award - Texas A&M, 1990

Outstanding Laboratory Instructor Award - University of Wyoming, 1987

Outstanding Student in Secondary Education Award - Sam Houston State University, 1981

## **UNIVERSITY COMMITTEES AND SERVICE**

Sam Houston State University:

Ad hoc Curriculum Processes Review Committee 2017-Spring 2018

Ad hoc committee to review course scheduling policies – 2017-2018

Chaired the COSET-component of the March of Dimes Fund-raising event on behalf of the university.

Host family for 3 Korean students for the SHSU-CUE Winter Short Program (1 month) 2017

Meta-Assessment Committee – fall 2013-present

Member of the University Curriculum Committee – fall 2013-present

University Core Curriculum Meta-Assessment Committee – fall 2016-present

Member of the *ad hoc* SEEL Team (Supporting Environmental Education and Learning) group 2016-2017

National Coordinator for the American Association of State Colleges and Universities' National Blended Course program for the Foundations of Science/Science for Citizens course – fall 2015-2016

QEP Lead Evaluator for SACSCOC site visits to Union College in Kentucky and Southwest Virginia Community College – 2016

Member of the SACSCOC 5<sup>th</sup>-Year Report Committee – 2014

Member of the Texas Higher Education Coordinating Board's Academic Course Guide Manual Learning Outcomes Project committee (review of Common Core geography course descriptions) – 2014

Strategic Enrollment Management Committee – 2014

International Programs and Activities Committee – 2014 to present

Study Abroad Scholarship Committee – 2015-present

SHSU ad hoc Assessment Software Review Committee – 2014

Campus Master Plan Advisory Committee – 2012

Council of Associate Academic Deans, summer 2011 – present

Institutional Effectiveness Committee 2009 – 2011

Editorial staff for *Inquiry: Critical Thinking Across the Disciplines* 2009-2016

SACS Leadership Committee, spring and summer, 2008

Chair of QEP Committee/Foundations of Science, spring 2008 to 2015

QEP committee member for SACS Review, fall 2007

Host family for visiting students from Momoyama University, Japan, spring 2008, 2009, 2010, 2011, 2012, 2013, 2014

Search Committee to select an Associate Director of the International Studies Program, 2006

Chair: Student Disciplinary Hearing Committee, fall 2008-2014

Student Disciplinary Hearing Committee, 2005-2008

Boy Scout Weather Badge Advisor for Scout Day at SHSU, 2/2006, 2/2007, 2/2008

Committee to develop the mall area and geoscape, 2005-2007

Faculty–Staff Annual Fund Campaign, 2005, 2006, 2007

Search Committee to select the Director of the International Studies Program, 2005

New Student Convocation Committee, 2004-2017

Department of Physics Promotion and Tenure Advisory Committee, 2005

Across-the-University Writing Program Committee, 2004-2005

COAS Grievance Committee Chair, 2004

First-Year Experience Committee, 2003-2006

College of Arts and Sciences Chairs Council, 2002-2006, 2011-present

Council of Associate Academic Deans 2011-present

Academic Affairs Council, 2002-2007, 2011-present

Teacher Education Council, 2002-2005, 2011

Northwest Missouri State University:

Deans and Chairs Council (May 2000 - 2002)

College Chairs Advisory Council (May 2000 - 2002)

University Chairs Council (May 2000 - 2002)

Curriculum and Degree Committee (Fall 2000-Spring 2001)

International Studies and Programs Committee (Fall 2000-Spring 2001)

Multicultural Executive Committee (Fall 1999 - Spring 2001)

Chair of a subcommittee of the Multicultural Strategic Initiative Committee (Spring 1999)

Committee on Committees (Fall 1998 - Spring 2000)

Alumni Data Outcomes Team (Fall 1998 -1999)

Faculty Senate Executive Committee (Fall 1998 - Spring 2000)

Faculty Senate (Fall 1998 - Spring 2000)

Chair of the Assessment Committee (Fall 1998 - Spring 2000)

Pilot for Professional Development Steering Committee (Fall 1997-Spring 2000)

Student Success Task Force for Freshman Seminar (Fall 1997 - 1999)

Freshman Seminar Advisory Committee (Fall 1997 - 1999)

Assessment Committee (Fall 1997 - 2001)

Improvement of Teaching and Learning Subcommittee of the Assessment Committee (Fall 1997 - 2001)

Science section of the GEDAG Committee (Fall 1996 - Spring 1999)

Multicultural Committee (Fall 1995 - Spring 1996)

Research Committee (Fall 1995 - Spring 1996)

Student advising (approximately 25 advisees)

Co-sponsor of Geo Club (1994-1996)

Missouri Science Olympiad Judge (1994, 1995, 1996, 1997, 1998, 1999)

## COLLEGE COMMITTEES AND SERVICE

Associate Dean of Assessment and Curriculum for the College of Sciences, summer 2011 – present

Chair of College Curriculum Committee, fall 2011 – present

Chair of the College of Science and Engineering Technology Meta-assessment Committee 2014-present

Program Coordinator for the Composite Science degree program, 2016-present

Program Coordinator for the Environmental Science degree program, 2017-present

Chair of ad hoc Environmental Science program committee – fall 2013-spring 2016

Chair of ad hoc committee to revise the COS Composite Science degree – fall 2015-spring 2016

Chair of the ad hoc search committee for the Foundation of Science and Biology lecturer position – fall 2015- spring 2016

College of Education Assessment Committee, fall 2011-present

College of Education Strategic Planning Committee – present

Ad hoc RFP Proposal Review Committee for CHSS Dean's search

Catalog revision committee – 2012

Search committee for the Dean of the future College of Allied Health (summer 2012)

Chair of Search Committee to hire *Foundations of Science* Lab Coordinator/Instructor

Dean's Liaison to College Level Tenure and Promotion Committee

Dean's Liaison for Dean's College Awards Committee

Search Committee member for secretarial position in the Dean's Office

Served as a DPTAC member for the Nursing Program, fall 2012

Member of ad hoc clicker technology committee, fall 2012

Search Committee member for secretarial position in the Dean's Office, fall 2012

College of Arts and Sciences Curriculum Committee, 2006-2007

COAS Chairs Committee 2002-2007

Ad hoc Committee on workload issues, 2003

Building Liaison for LDB, 2002-2007, 2011-present

Ad hoc committee on the development of a new FES system for the College of Arts and Sciences, 2004

## OTHER

Geography/Geology Dept.: Taught a study abroad course to Thailand and Cambodia in the summer of 2017 (May 14<sup>th</sup>- June 9<sup>th</sup>). In



addition to cultural topics, students also learned about conservation efforts to protect and preserve elephants, mangrove forests, and coral reefs by visiting elephant camps and a national park. Students also built bamboo erosion control “dams” near a local village, visited a coal mine and cement factory to learn about environmental protection and restoration efforts, and snorkeled on a coral reef to learn about the impacts of climate change and tourism on reefs.

Prepared and submitted proposal for Masters Degree in Applied GIS, spring 2008 (proposal approved in summer 2008)

## REFEREED PUBLICATIONS

Gillespie, M., Koether, S., Lewis, Michelle. *Fostering the Disposition to Think Critically and a Positive Attitude Toward Science: The Results of a Successful Six-Year Study of an Innovative, General Education Integrated Science Course*, Inquiry: Critical Thinking Across the Disciplines

Rowe, M., Gillespie, M., Harris, K., Koether, S., Shannon, Li-Jen., and Rose, L (2015) *Redesigning a General Education Science Course to Promote Critical Thinking*, CBE-Life Science Education, Fall, Vol. 14, pp. 1-12.

Billesbach, T., Bush, B., Gillespie, M., Krueger-Rameh, D., and Ruhl, M. (2000) *Team Based Professional Development: An Emphasis on Collaboration and Cooperation*, The Department Chair, Fall, Vol. 11, No. 2, pp. 15-18.

Billesbach, T., Bush, B., Gillespie, M., Graham, M., Krueger-Rameh, D., Nothstine, D., and Ruhl, M. (1999) *Pilot Professional Development Design*, National Issues in Higher Education, Spring, Vol. 49, pp.47-55.

Gillespie, B. and Giardino, J.R. (1998) *Explaining the Importance of Operational Definitions to Students*, Journal of Geoscience Education, v. 46, pp. 427-432.

Gillespie, B. and Giardino, J.R. (1997) *The Nature of Channel Planform Change: Brazos River: Texas*, Texas Journal of Science, v. 49 (2), pp. 109-142.

Gillespie, B. and Giardino, J.R. (1996) *Determining the Migratory Activity Index for a River: An Example from the Brazos River*, Zeitschrift fur Geomorphologie, v. 40 (4) pp. 417-428.

## **OTHER PUBLICATIONS**

Gillespie, M., Hill, J., Rose, L., and Rowe, M. Foundations of Science lab manual. Hayden McNeil, 2010 and 2011

Gillespie, M., Netoff, D., and Tiller, J., e-Weather and Climate lab manual

Gillespie, M. and D.P. Albert. 2003. Population Pyramids and Demographics. *NCGE Perspective* 31(3): 9-10

Gillespie, M. 2002. Tower Karst of Peninsular Thailand. *Geography Online* 3(2).

Test Item File for Geosystems: 3e (1997) Prentice-Hall Publishing Company, Upper Saddle River, New Jersey.

Test Item File for Elemental Geosystems: 2e (1997) Prentice-Hall Publishing Company, Upper Saddle River, New Jersey.

## **PAPERS SUBMITTED**

2005: "Conceptual Development of an Introductory Geology Course for Non-Majors", Co-authors are John R. Giardino, Caroline Beller, and John Vitek

2005: "Using Systems to Teach Geography", Co-authors are John R. Giardino, John Vitek, and Dick Marston

## **PUBLISHED REVIEW**



Gillespie, M. (1994) How to ... Teach With Topographic Maps, Journal of Geography, v. 93 (5) pp. 251-252.

## OTHER MANUSCRIPTS REVIEWED

“Dam-Induced and Natural Channel Changes in the Saskatchewan River below the E.B. Campbell Dam, Canada”, for *Geomorphology* (GEOMORPH-6361) 2016.

“A Qualitative Study to Explore High School Students’ Understanding of, and Attitude Towards, Health Information and Research” for the journal *Health Expectations*. 2016.

“Sediment budget of the lower Red River as affected by dam construction”, for *Geomorphology* (GEOMORPH-5134) 2014 and again in 2015 for 2<sup>nd</sup> review

“Lithologic and hydrologic controls of mixed bedrock-alluvial channels in flood-prone fluvial systems: bankfull-and macro-channels in the Llano River watershed, central Texas, USA., for *Geomorphology* (GEOMORPH 4945) 2014

“Channel adjustments to historical adjustments along the lower Brazos and Sabine Rivers, south central USA., for *Geomorphology* (GEOMORPH-401832) 2013

“Geomorphic Response to flow regulation and channel floodplain alteration in the gravel-bedded Cedar River, Washington, USA., for *Geomorphology* (GEOMOR-3257) 2012

“The localized role of base-level lowering on channel adjustment of tributary streams in the Trinity River basin downstream from the Livingston Dam, Texas, USA. for *Geomorphology* (Ms Ref. No.: GEOMOR-2148. 2011

“Channel 6” – a case study submitted to the National Center for Case Study Teaching in Science.

“The Influence of Valley Aggradation and Listric Normal Faulting on Styles of River Avulsion: A Case Study of the Brazos River, Texas, USA.” for Geomorphology, December, 2006.

“On the Trail of Erosion: The importance of footpaths in accelerating Horton overland flow in an agricultural watershed in northern Thailand” for Geomorphology in July, 2000.

“An Interactive U.S. Land Survey Exercise” for the Journal of Geography in March, 1995.

“River Metamorphosis in a Humid Coastal Plain Setting: Effects of Sand and Gravel Mining in the Amite River, Louisiana” for The Annals of the Association of American Geographers in February, 1993.

## PRESENTATIONS

Presentation at the 2016 Teaching and Learning Conference titled, “*Program Dignity: Bringing SHSU’s Motto to Life*”. (Co-presenters Dr. Joyce McCauley and Dr. Pamela Zelbst)

Presentation at the 2016 Teaching and Learning Conference titled, “*What is Critical Thinking and How Can We Teach It? Strategies for Teaching Students to Think Critically*”. (Co-presenters Steven Koether and Jeff Roberts)

Presentation at the Southern Association of College and Schools: Commission on Colleges in Nashville, TN on December 7, 2014 titled, “Engaging Faculty in the Assessment and Improvement of Critical Thinking Using the CAT Instrument”

Presentation to Texas State law enforcement personnel at the Annual Drugs Conference in Austin, Texas on July 29, 2014 titled, “Critical and Biased Thinking”.

Invited presentation at TADLAS (Texas Association of Deans of Liberal Arts and Sciences) conference at SHSU on January 8<sup>th</sup>, 2013 titled “Redesigning Intro Science Courses to Promote Critical Thinking”.

Invited presentation at the University of North Texas College of Sciences faculty meeting on April 8<sup>th</sup>, 2013 in Denton, TX titled, “*A Novel and Effective Approach to Teaching Science Literacy and Critical Thinking Using Case Studies*”.

Invited presentation at the Texas A&M, Kingsville Arts and Science Retreat held on August 21, 2013. The theme for the retreat was “Mining Gen-Ed: Helping Students Dig Deeper.”

Presentation at the Canadian Association of Geographers meeting in St. John’s, Newfoundland on August 12, 2013. “*A Novel, Effective Approach to Teaching Science Literacy and Critical Thinking Using Case Studies*”

Invited presentation on the importance of critical thinking in law enforcement at the Correction Management Institute of Texas (CMIT) week-long training seminar held at SHSU in May 2013. “*Things Aren’t Always What They Seem*” (Twice per academic year since 2013).

Invited presentation at the Conroe Juvenile Detention Center on 7-28-2013 titled, “*Things Aren’t Always What They Appear to Be*”.

Invited presentation at the statewide Texas Juvenile Justice Association conference in Conroe, TX in November, 2013 titled “*Things Aren’t Always What They Appear to Be*”.

Presentation at the Southern Association of College and Schools: Commission on Colleges in Dallas, TX on December 8, 2012 titled, “Engaging Faculty in the Assessment and Improvement of Critical Thinking Using the CAT Instrument”

Presentation at the American Philosophical Association in Chicago, titled “The Critical Thinking and Assessment Test[CAT]: Assessing CT in Science Courses” on Friday, February 17, 2012

Presentation at the Alliance of Universities for Democracy (AUDEM) Conference in Dubrovnik, Croatia, October 23-25, 2011, “*A Novel Approach to Teaching Science Literacy and Critical Thinking Using Case Studies*”

Presentation at the SACSCOC conference in Orlando, Florida held December 4-5, 2011, titled: “*Engaging Faculty in Assessing & Improving Critical Thinking using the CAT Instrument*”.

Presentation at National Council for Geographic Education Conference in Savannah, Georgia, October 2, 2010, *Pushing Boundaries: A Novel Approach to Teach Geography*

Served as poster judge at SWAAG Conference in fall, 2007

Presentation: American Association of Higher Education Assessment Conference, Denver, Colorado, June 2001, *Using Assessment Results for Decision Making*.

Presentation: Higher Education Learning and Information eXchange (HELIX) Conference, Osage Beach, Missouri, March 2001, *Web Science: Combining the Old and the New*.

Paper: Association of American Geographers, Chicago, March, 1995, *The Nature of Channel Planform Change, Brazos River, Texas*.

Poster: Geological Society of America, Cincinnati, Ohio, 1992, *The Nature of Channel Planform Change, Brazos River, Texas*.

Poster: Ocean Drilling Program Conference, Texas A&M, 1989, *Rock Glacier Morphology*.

Poster, Geological Society of America, Phoenix, Arizona, September, 1987, *The Impact of Military Maneuvers on Eolian Transport and Soil Compressive Strength in South Central New Mexico*.

## **GRANTS**

Raise Your Hand Grant Proposal. Proposal to provide financial assistance to students wanting to become teachers in Texas. Co-authored proposals with members of the College of Education. Not funded.

Culture of Quality grant (\$3,200) funded through Northwest Missouri State University for purchase of several GPS units to be used in department curriculum - 1997.

Faculty Research grant (\$650) funded through Northwest Missouri State University to study the migration of the 102 River in Nodaway County, Missouri - 1995

Undergraduate Research grant (\$500) funded through Northwest Missouri State University to study the migration of the 102 River in Nodaway County, Missouri – 1995

## **PROFESSIONAL ORGANIZATIONS**

Association of American Geographers  
Sigma Xi: Scientific Research Society

## **STUDENT SUPPORT**

Sponsor and Instructor for Martial Arts of Sam Houston (M.A.S.H.) club (an affiliate of the American Institute of Modern Hap Ki Do Instruction, Missouri), 2002-present

Conducted four self defense seminars for high school students who attended a CJ Summer Camp program. The seminars were held in June and July, 2017 and each seminar lasted about an hour and 20 minutes.

Gave self-defense seminars to fraternities

Host family for two students from Chinju National University of Education in Korea (one month, Spring 2017 and Spring 2018)

Host family for three students from Chinju National University of Education in Korea (one month, Spring 2017 and Spring 2018)

Host family for nine students from Momoyama University, Japan (one month each spring) 2008-2014

Sponsor of the Sam Socratic Society (S3), 2005-spring 2006

Sponsor of Gamma Theta Upsilon Geography Honor Society, 2002-spring 2006

**COMMUNITY SERVICE (2017-2018)**

President of the Huntsville Rotary Club July 2017 – June 30, 2018

Hosted a Rotary Youth Exchange from August through November, 2017.

Conducted a Boy Scout Sustainability Merit Badge event at SHSU in March.

Gave presentation titled “Climate Change: Evidence, Causes, and Consequences” at the Huntsville Public Library on February 23, 2017.