

## CURRICULUM VITAE

### ARLEEN A. HILL, Ph.D.

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Department of Earth Sciences  
University of Memphis  
Memphis, TN 38152

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### EDUCATION

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**Ph.D.**, Geography, University of South Carolina, August 2002.

**M.S.**, Earth & Environmental Resources Management, University of South Carolina, December 1998.

**B.S.**, Geology, Mary Washington College, May 1994.

### ACADEMIC APPOINTMENTS

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**Professor** (2017-present), Dept. of Earth Sciences, University of Memphis, Memphis, TN 38152.

**Associate Professor** (2009-2017), Dept. of Earth Sciences, University of Memphis, Memphis, TN 38152.

**Assistant Professor** (2003-2009), Dept. of Earth Sciences, University of Memphis, Memphis, TN 38152.

**Visiting Assistant Professor** (2002-2003), Dept. of Geography, Bucknell University, Lewisburg, PA 17837.

### AWARDS AND HONORS

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2019 Professional Development Assignment. College of Arts and Sciences, University of Memphis.

2016 Finalist, Distinguished Teaching Award. Alumni Association, University of Memphis.

2015 Finalist, Distinguished Teaching Award. Alumni Association, University of Memphis.

2014 Distinguished Research Award: Excellence in Engaged Scholarship. College of Arts and Sciences,  
University of Memphis.

2013 Harold Love Outstanding Community Service Award – Nominee. TN Higher Education Commission.

2013 Course Redesign Fellowship. Advanced Learning Center, University of Memphis. (Burnette and Hill).

2013 Excellence in Engaged Scholarship Award – Nominee. Alumni Association, University of Memphis.

2012 First Responder Award Recipient. Tennessee Governor and Department of Safety and Homeland Security.

2011 River Watch 2011 Appreciation Award. Shelby County Office of Preparedness, Shelby County, TN.

2011 The Navy's Human Resource Center of Excellence. US Department of the Navy, Millington, TN.

2010 Finalist, Distinguished Teaching Award. Alumni Association, University of Memphis.

2010 Professional Development Assignment. College of Arts and Sciences, University of Memphis.

2006 Early Career Research Award Recipient. College of Arts and Sciences, University of Memphis.

2011 Travel Award Recipient, Earthquake Engineering Research Institute (EERI).

2010 and 2006 Travel Award Recipient, EERI and Multidisciplinary Center for Earthquake Engineering Research.

2009 and 2004 Travel Award Recipient, EERI.

2008 Travel Award Recipient, United States Geological Survey and ImageCat, Inc.

2005 Donovan Travel Award Recipient, The University of Memphis.

2005 Travel Award Recipient, Dept. of Civil and Environmental Engineering University of California Irvine.

### SELECTED ACADEMIC ADMINISTRATION EXPERIENCE

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Acting Chair, Department of Earth Sciences, University of Memphis (06/2019, 06/2018, and as needed).

Chair, Tenure and Promotion Committee, Department of Earth Sciences, University of Memphis (2018 – 2020).

Member, Institutional Review Board, University of Memphis (2013 – present).

Member, Tenure and Promotion Appeal Committee, University of Memphis (2019 – present).

Graduate Program Coordinator, Department of Earth Sciences, University of Memphis (2009 – 2012).

Curriculum Developer, Professional Studies Concentration in Emergency Management (2014 – 2015).

## SCHOLARSHIP – PUBLICATIONS

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### REFEREED (\* designates student as first author)

Burnette, Dorian J., David H. Dye, and Arleen A. Hill. 2020. Climate Change and Ritual Practice at Spiro. In *Recovering Ancient Spiro*, edited by Eric D. Singleton and F. Kent Reilly, III. University of Oklahoma Press, Norman. In press.

\*Wallace, Z. C., and A.A. Hill. 2017. Forecaster and Emergency Manager Perspectives on Coordination and Communication with the Weather Warned Public. *Papers in Applied Geography*, 3(2), 157-170.

\*Goddard, L. E. and **A. A. Hill**. 2017. Implementing GIS in Emergency Management and Homeland Security Agencies: A Regional Case Study of User Perspectives. *Journal of Homeland Security and Emergency Management*. (under review)

\*Javadnejad, F., B. A. Waldron, **A. A. Hill**. 2016. LITE Flood: A Simple GIS-Based Mapping Approach for Redelineation of Multi-Frequency Floods. *Natural Hazards Review*.  
[http://ascelibrary.org/doi/abs/10.1061/\(ASCE\)NH.1527-6996.0000238](http://ascelibrary.org/doi/abs/10.1061/(ASCE)NH.1527-6996.0000238)>. DOI: 10.1061/(ASCE)NH.1527-6996.0000238.

Brondo, K. V., S. Kent, and **A. Hill**. 2016. Teaching Collaborative Environmental Anthropology: A Case Study Embedding Engaged Scholarship in Critical Approaches to Voluntourism. *Annals of Anthropological Practice - Special Topics: Involve Me and I Learn*". 40(2): 193-206. DOI: 10.1111.napa.12101.

\*Wallace, Z. C., L. D. Keys-Mathews, **A. A. Hill**. 2015. The Role of Experience in Defining Tornado Risk Perceptions: A Case from the 27 April 2011 Outbreak in Rural Alabama. *Southeastern Geographer*. 55(4) 400-416.

Waldron, B., **A. Hill**, B. Nations, Jr. 2015. Managing Response and Recovery to Mississippi River Flooding in Memphis/Shelby County, Tennessee. In G.A. Tobin and B.E. Montz (eds.) *Evolving Approaches to Understanding Natural Hazards*. Cambridge Scholars Publishing: Newcastle-Upon-Tyne. (p. 444-457)<sup>1</sup>.

Cox, R., R. Van Arsdale, D. Clark, **A. Hill**, and D. Lumsden. 2013. A revised paleo-earthquake chronology on the southeast Reelfoot rift margin near Memphis, Tennessee. *Seismological Research Letters*. 84(2). doi: 10.1785/0220120142.

\*Rathfon, D., R. Davidson, J. Bevington, A. Vicini, **A. Hill**. 2013. Quantitative Assessment of post-disaster Housing Recovery: A Case Study of Punta Gorda, Florida following Hurricane Charley. *Disasters*. 37(2): 333-355. DOI: 10.1111/j.1467-7717.2012.01305.x

Van Arsdale, R.B., D. Arellano, K. C. Stevens, **A. A. Hill**, J. D. Lester, A. G. Parks, R. M. Csontos, M. A. Rapino, T. S. Deen, E. W. Woolery, and J. B. Harris. 2012. Geology, Geotechnical Engineering, and Natural Hazards of Memphis, Tennessee, USA. *Environmental and Engineering Geoscience*. XVIII(2): 113-158.

Waldron, B., **A. Hill**, and B. Nations. 2011. Managing Response and Recovery to Mississippi River Flooding in Memphis/Shelby County, Tennessee. *Papers of the Applied Geography Conferences*. 34: 119-129.

**Hill, A.**, J. Bevington, R. Davidson, S. Chang, R. Eguchi, B. Adams, S. Brink, D. Panjwani, R. Mills, S. Pyatt, M. Honey, P. Amyx. 2011. Community-scale Damage, Disruption, and Early Recovery in the 2010 Haiti Earthquake. *Earthquake Spectra*. 27, S431-446. doi: 10.1193/1.3624964,2011.

Cox, R.T., J. Gordon, S. Forman, T. Brezina, M. Negrau, **A. Hill**, C. Gardner, and S. Machin. 2010. Paleoseismic sand blows in north Louisiana and south Arkansas. *Seismological Research Letters*. 81(6): 720 – 735.

\*Chen, J., **A. A. Hill**, L. D. Urbano. 2009. A GIS-based model for urban flood inundation. *Journal of Hydrology* 373(1-2), 184-192, doi: 10.1016/j.jhydrol.2009.04.021

\*Chen, J. and **A. Hill**. 2007. Modeling Urban Flood Hazard: Just How Much Does DEM Resolution Matter? *Papers of the Applied Geography Conferences*. 30: 372-379.

Cox, R. T., **A. A. Hill**, D. Larsen, T. Holzer, S. L. Forman, T. Noce, J. Morat, C. Gardner. 2007. Seismotectonic Implications of Sandblows in the southern Mississippi Embayment. *Engineering Geology*. 89:278-299.

Mitchell, J. T., **A. A. Hill**, M. Baker, S. Jones, and S. Cutter. 2002. Transitory Trouble: Inter- and Intra-state Hazardous Materials Flows in South Carolina. *Middle States Geographer*. 35:13-21.

Cutter, S. L., M. S. Scott, and **A. A. Hill**. 2002. Spatial Variability in Toxicity Indicators used to Rank Chemical Risks. *American Journal of Public Health*. 92(3):420-422.

Mitchell, J., D. Thomas, **A. Hill**, and S. Cutter. 2000. Catastrophe in Reel Life versus Real Life: Perpetuating Disaster Myth through Film. *International Journal of Mass Emergencies and Disasters*. 18(3): 383-402.

**Hill, A. A.** and M. J. Bartholomew. 1999. Seismic Hazard Susceptibility in Southwestern Montana: Comparison at Dillon and Bozeman. in Hughes, S. S. and G. D. Thackray (eds.) Guidebook to the Geology of Eastern Idaho. Pocatello, Idaho Museum of Natural History: 131-139.

#### **ARTICLES, BOOK CHAPTERS, AND CONFERENCE PAPERS (NOT REFEREED)** (\* designates student as first author)

Burnette, Dorian J., David H. Dye, Arleen A. Hill. 2019. Social Responses to Climate Change in the Lower Mississippi Valley. Invited paper presented at WESIPS, Warfare, Environment, Social Inequality, and Pro-Sociability, Seville.

Cox, R.T., T. Brezina, S. Machin, **A. Hill**, C. Gardner, J. Gordon, J. B. Harris, and S. L. Forman. 2013. Progress report on investigation of Holocene faulting and liquefaction along the southern margin of the North American craton: IN Tuttle, Martitia, Boyd, Oliver, and McCallister, Natasha, 2013, Meeting of the Central and Eastern U.S. (CEUS) Earthquake Hazards Program October 28–29, 2009: U.S. Geological Survey Open-File Report 2013–1155, p. 38-39.

Cox, R.T., R. Van Arsdale, D. Lumsden, **A. Hill**, and D. Clark. 2011. Seismological Society of America 2011 Field Trip – Fault Trench Site in the New Madrid Seismic Zone. Final Technical Report to the United States Geological Survey – Award G11AP21122 (p. 7).

Vicini, A., J. Bevington, R. Davidson, and **A. Hill**. 2011. Post-disaster Evaluation of Community-based Housing Recovery from Aerial Imagery: A Study of Punta Gorda, Florida following Hurricane Charley. *9<sup>th</sup> International Workshop on Remote Sensing for Disaster Response*.  
[https://blume.stanford.edu/sites/default/files/RS\\_Vicini\\_etal\\_HousingRecovery\\_0.pdf](https://blume.stanford.edu/sites/default/files/RS_Vicini_etal_HousingRecovery_0.pdf)

Bevington, J.S., **A. A. Hill**, R. A. Davidson, S. E. Chang, A. Vicini, B. J. Adams, and R. T. Eguchi. 2011. Measuring, Monitoring and Evaluating Post-Disaster Recovery: A Key Element in Understanding Community Resilience. ASCE Structures Congress. URL: <http://link.aip.org/link/?ASC/401/177>. DOI: 10.1061/41171(401)177.

Adams, B., Amyx, P., Bevington, J., Brink, S., Chang, S., Davidson, R., Eguchi, R., **Hill, A.**, Honey, M., Mills, R., Panjwani, D., Pyatt, S. 2010. Assessing Community-Scale Damage, Disruption, and Early Recovery in Post-earthquake Haiti. *Disaster Research Center, Miscellaneous Report 70*, Newark, DE.

Bevington, J., S. Pyatt, **A. Hill**, M. Honey, B. Adams, R. Davidson, S. Brink, S. Chang, D. Panjwani, R. Mills, P. Amyx, and R. Eguchi. 2010. Uncovering Community Disruption Using Remote Sensing: An Assessment of Early Recovery in Post-Earthquake Haiti. Proceedings of the 8<sup>th</sup> International Workshop on Remote Sensing for Disaster Management. [http://mceer.buffalo.edu/publications/workshop/RS-8/Papers/20\\_hill\\_paper.pdf](http://mceer.buffalo.edu/publications/workshop/RS-8/Papers/20_hill_paper.pdf)

Lannom, D., **A. Hill**, S. Walen. 2009. Memphis Urban Area Case Study Report. *Community and Regional Resilience Initiative*. (p.204)

**Hill, A. A.** 2009. Community Resilience: Linking Lessons from the Memphis Urban Area Community Engagement with Research Findings. *Community and Regional Resilience Initiative*. (p.16)

Pitts, W. J., D. Norris-Tirrell, **A. A. Hill**, and R. Dupont. 2008. Perception of Emergency Preparedness in Shelby County, Tennessee. Project Report to the Assisi Foundation. (p.34).

**Hill, A. A.** and M. M. Withers. 2007. Communicating Strong Ground Motion in Mid-America. Final Technical Report to the United States Geological Survey – Award 05HQGR0043. (p. 26).

**Hill A. A.**, Keys-Mathews L. D., Adams B. J., and Podolsky D., 2006. Remote Sensing and Recovery: A Case Study on the Gulf Coast of the United States. Proceedings of the 4<sup>th</sup> International Workshop on Remote Sensing for Disaster Response. [www.arct.cam.ac.uk/curbe/aahill\\_etal.pdf](http://www.arct.cam.ac.uk/curbe/aahill_etal.pdf). (p.6).

Lynn, K., and **A. Hill**. 2006. Strengthening Resilience of Rural communities to Wildfire in the Pacific Northwest. Final Report to Natural Hazards Center – Quick Response Report 185. (p.20).

Cox, R. T. and **A. A. Hill**. 2005. Geologic and Environmental Characteristics of Dogtooth Bend, Illinois. *in* Albertson, E. S., A. B. Buchner, R. T. Cox, and A. A. Hill. Archaeological Survey within Designated Portions of the Proposed Len Small Floodway in Dogtooth Bend Alexander County, Illinois. St. Louis Historic Properties Management Report to the U.S. Army Corps of Engineers. (p. 45-58).

**Hill, A. A.** and L. D. Keys-Mathews. 2005. Geography, Disasters and Remote Sensing. Proceedings of the 3<sup>rd</sup> International Workshop for Remote Sensing for Disaster Response – September 2005. <http://ares.tu.chiba-u.jp/workshop/Chiba-RS2005/>. (p.6).

Cutter, S. L., J. T. Mitchell, **A. A. Hill**, L. Harrington, S. Kaktins, W. Muraco, J. De Hart, A. Reynolds, and R. Shudak. 2003. Attitudes Toward Reducing Greenhouse Gas Emissions from Local Places. *in* The Association of American Geographers GCLP Research Group. 2003. Global Change and Local Places: Estimating, Understanding, and Reducing Greenhouse Gases. Cambridge, UK: Cambridge University Press. p. 171-191.

**Hill, A. A.** and S. L. Cutter. 2001. Methods for Determining Disaster Proneness. *in* Cutter, S. L. (ed.) American Hazardscapes: The Regionalization of Hazards and Disasters. Washington, D.C.: Joseph Henry Press. p. 13-35.

## SCHOLARSHIP – RESEARCH ACTIVITY

FUNDED WITH EXTERNAL SUPPORT			
PROJECT TITLE	AGENCY/SOURCE	AMOUNT	PERIOD
University of Memphis Hazard Mapping, Assessment, and Education Project	TN Department of Economic and Community Development/US Housing and Urban Development	Total Project \$3,126,731	08/01/2017 – 07/31/2022
A. Interactive Hazards Database and Vulnerability Assessment Tool (PI: 40% effort)		A.\$325,000	
B. Project Management (co-PI: 20% effort)		B.\$419,749	

Design for Success: Can Residence Hall Design Influence Outcomes of Low-income, Underrepresented Minority and First Generation Students in their First Year at College? (co-PI: 20% effort)	Tennessee Board of Regents	\$30,000	07/01/16 – 06/30/17
The Intersections of Voluntourism, Conservation and Livelihoods: Strengthening Approaches to Conservation in Utila, Honduras (Team Member: 0% effort)	The Center for Collaborative Conservation (CCC) at Colorado State University Warner College of Natural Resources	\$15,000	2016 – 2017
Urban Area Security Initiative GIS Phase 4 (40% of effort)	Shelby County	\$60,000	06/01/14 – 05/31/15
Urban Area Security Initiative GIS Phase 3 (40% of effort)	Shelby County	\$132,100	06/01/13 – 05/31/14
Urban Area Security Initiative GIS Phase 2 (40% of effort)	Shelby County/Dept. of Homeland Security	\$750,000	06/01/12 – 05/31/13
Urban Area Security Initiative GIS Phase 1 (40% of effort)	Shelby County/ Dept. of Homeland Security	\$850,000	06/01/11 – 05/31/12
Assessing Community-Scale Disruption and Restoration of Basic Needs in Post-earthquake Haiti. (25% of effort including In-country field deployment lead and POC)	National Science Foundation	\$40,650	03/10 – 09/10
Memphis Urban Area Security Initiative Critical Infrastructure/Key Resources (50% of effort)	Memphis Police Department	\$140,000	06/09 – 03/11
Methods for Measuring, Monitoring and Evaluating post-Disaster Recovery. (20% of effort)	National Science Foundation	\$280,000	2008 – 2010
Mass Shelter and Care Strategies for Memphis Area Task 1: Vulnerability. (100% of effort - \$43,530 Hill portion of \$500,000 project)	Assisi Foundation award to West Tennessee Seismic Safety Commission	\$43,530	05/01/08 - 04/30/10
Community and Regional Resilience Initiative – Memphis Urban Area. (PI: 100% of effort)	Oak Ridge National Lab/Department of Homeland Security	\$86,166	08/2007- 12/31/08
Alluvial Fan Form Quantification to Advance Geographic Science and Education. (0% of effort – GA support only)	East Carolina University	\$26,796	2007 – 2008
Urban Hazard Maps: What Do They Convey? (lead-PI: 90% of effort)	United States Geological Survey – National Earthquake Hazards Reduction Program	\$60,701	2007 – 2008
Political and Organizational Structure Influence on Earthquake Decision Making. (PI:100% of effort)	Mid-America Earthquake Center R. Olshansky & C. Weible collaborators with separate additional MAEC budgets.	\$51,800	10/06 – 9/07
City of Memphis GIS Data Migration. (co-PI: 15% of effort)	City of Memphis, Tennessee	\$49,900	03/07 – 6/07
Urban Hazard Mapping: Alternative Visualizations and Derivative Products. (PI: 100% of effort)	United States Geological Survey	\$11,971	01/07 – 9/07

Assessing Post-Katrina Recovery Using Remote Sensing Technologies. (co-PI: 35% effort)	Natural Hazards Research and Applications Information Center - Quick Response Grant	\$5,000	2006
Workshop to Develop a Community Strategy for a Borehole Geo-Observatory in the Central U.S. (co-PI: 30% of effort)	United States Geological Survey – National Earthquake Hazards Reduction Program	\$25,000	2006
TN Homeland Security District Eleven Strategic Planning. (co-PI: 16% of effort)	Shelby County Government	\$29,534	7/05 – 12/05
Communicating Strong Ground Motion in Mid-America. (lead-PI: 80% of effort)	United States Geological Survey – National Earthquake Hazards Reduction Program	\$40,000	2005 – 2006
Disaster Resistant University. (co-PI: 30% of effort)	FEMA’s Pre-Disaster Mitigation Program Tennessee Emergency Management Agency	\$133,333	2004 – 2006
Political and Organizational Structure Influence on Earthquake Decisions. (PI: 100% of effort)	Mid-America Earthquake Center	\$27,914	2004 – 2005
Strengthening Resilience of Underserved Populations to Wildfire in the Pacific Northwest. (co-PI: 50% of effort)	Natural Hazards Research and Applications Information Center - Quick Response Grant	\$3,500	2004 – 2005
Gender Dimensions of Evacuation Behavior. (co-PI: 50% of effort)	Natural Hazards Research and Applications Information Center - Quick Response Grant	\$3,500	2003 – 2004
<b>PENDING - EXTERNAL SUPPORT</b>			
PROJECT TITLE	AGENCY/SOURCE	AMOUNT	PERIOD
Best Practices for Rural Community Engagement in Middle TN – Transportation Planning for All	Greater Nashville Regional Council	\$46,030	2020 – 2021
<b>UNFUNDED - EXTERNAL SUPPORT</b>			
PROJECT TITLE	AGENCY/SOURCE	AMOUNT	PERIOD
Community Engagement for Rural Communities	Vanderbilt University TN Department of Transportation	\$20,000	2019
Contingency Planning to Provide Connectivity to Displaced Communities During mid-sized Disruptions (co-PI: 15%)	Federal Transit Administration	\$851,704	07/01/14-06/30/16
From Headwaters to Coastal Deltas: A Sustainability Research Network to Explore Flooding and the Complex Interplay of Climate, Society and the Landscape (100% effort on \$100,000 subcontract)	National Science Foundation - Sustainability Research Networks Competition	\$149,989	2013 – 2018
Social and Economic Impact Module (SEIM)	Global Earthquake Model	749,995€	2011 – 2013
EAGER: Investigating a Transformative Data Collection Framework for Explaining and Understanding Post-disaster Landscapes	National Science Foundation – Pre-proposal	Pre-proposal (no budget)	2011 – 2013
Development of a cross-training field course in Earth Sciences: Earth-science Learning Via Interdisciplinary Studies	National Science Foundation	\$198,011	2011 – 2013

NSF Engineering Research Center for the <u>S</u> ustainability of <u>C</u> omplex <u>C</u> ivilian Infrastructure under <u>E</u> xtrême <u>S</u> tress (SUCCESS) [Hill as Social Issues Research Thrust Lead (leading team of 8 researchers)]	National Science Foundation – Pre-proposal	Pre-proposal (no budget)	2010 – 2015
Ecosystem/Human Interaction in Urban Environments: Is There an Association between Ecosystem Measures and Quality of Life Indicators?	National Science Foundation	\$299,974	2010 – 2012
Resilience and Sustainability of Urban Centers Serviced by Interdependent and Interactive Urban Infrastructures. (co-PI: 100% of effort – \$120,000 is 10% portion of larger project)	National Science Foundation Pre-proposal.	\$120,000	2009 – 2012
Building Resilience in Riverview: An Environmental Justice Partnership in Memphis, TN.	Environmental Protection Agency	\$100,000	2006 – 2008
Active Tectonics outside the NMSZ and Long-term Deformation Models for the Mississippi Embayment.	United States Geological Survey – National Earthquake Hazards Reduction Program	\$60,229	1/2006 – 12/2006
PIRE: Integrated Research and Education in Seismic Risk Assessment.	National Science Foundation	Pre-proposal (no budget)	2006 – 2008
Communicating Strong Ground Motion in Mid-America – Renewal.	United States Geological Survey – National Earthquake Hazards Reduction Program	\$52,179	7/2006 - 6/2007
Cooperative Development and Implementation of Multi-jurisdictional Mitigation Plan.	Shelby County Government	\$217,235	2006
Homeland Security: Community Networks for Emergency Management and Response.	US Department of Homeland Security	\$3,369,394	2005 – 2007
Investigations of Seismically Induced Liquefaction in the Southern Mississippi Embayment.	United States Geological Survey – National Earthquake Hazards Reduction Program	\$67,595	1/2005 – 1/2006
Baseline Survey: Homeland Security Awareness.	Tennessee District-11 Homeland Security Council	\$27,950	2005
Peri-Urban Change Detection in San José, Costa Rica: An Application of Artificial Neural Networks for Satellite Image Processing.	National Aeronautics and Space Administration	\$24,000	09/2004 – 08/2005
Investigations of the Paleoclimatic Setting and Age of Late Quaternary Eolian Sand Dunes in the Lower Mississippi Valley.	National Science Foundation	\$193,468	08/2004 – 07/2007
REU GeoHazards Site at the University of Memphis.	National Science Foundation	\$194,498	01/04 - 01/07
Energy Infrastructure Vulnerability.	National Science Foundation	\$136,365	09/2003 08/2006

### **SCHOLARSHIP - ABSTRACTS AND PRESENTATIONS** (\* designates student as first author)

Burnett, D. J., D. H. Dye, and **A. A. Hill**. 2019. Social Responses to Climate Change in the Lower Mississippi Valley. *Warfare, Environment, Social Inequality and Pro-Sociability (WESIPS) Biennial Conference*. Seville, SPAIN: May 2019.

Burnette, D. J., D. H. Dye, and **A. A. Hill**. 2019. Climate Change, Population Migration, and Ritual Continuity in the Lower Mississippi Valley. *Society of American Archaeology Annual Conference*. Albuquerque, NM: April 2019 [invited].

Burnette, D. J., D. H. Dye, and **A. A. Hill**. 2019. Drought, disruption, and deities: a multi-disciplinary investigation of environmental change over the northern Lower Mississippi Valley. *Annual Association of American Geographers Conference*. Washington, DC: April 2018.

Wallace, Z. and **A. Hill**. 2018. "Indirect Experience with Hazards: An Influence on Behavior and Opportunity for Emergency Management". *Annual Association of American Geographers Conference*. New Orleans, LA: April 2018.

Burnette, D., D. Dye, and **A. Hill**. 2018. "Drought, Disruption, and Deities: A Multidisciplinary Investigation of Environmental Change in Mississippian Times". *Southeastern Archaeological Conference*. Memphis, TN: March 2018.

Burnette, D., D. Dye, and **A. Hill**. 2018. "Drought, Disruption, and Deities: Late Prehistoric Environmental Change in Tennessee". *Current Research in Tennessee Archaeology*. Montgomery Bell, TN: January 2018.

Burnette, D., D. Dye, and **A. Hill**. 2017. "Climate Change, Ritual, and Environmental Impacts a Spiro". *Department of Earth Sciences, University of Memphis Colloquium Series*. Tulsa, OK: November 2017.

\*Wallace, Z. C. and **A. A. Hill**. 2016. "Weather Warning Communication: Perspectives of Forecasters and Emergency Managers". *Applied Geography Conference*. Louisville, KY: October 2016.

**Hill, A. A.**, Z. C. Wallace, and L. E. Goddard. 2016. "Roots of Resilience: Flood Response and Recovery in Shelby County, TN". *Applied Geography Conference*. Louisville, KY: October 2016.

Brondo, K., **A. Hill**, and S. Kent. 2016. "Transforming Affective Labor into Collaborative Conservation in Voluntourism Exchanges on Utila, Honduras". *Society for Applied Anthropology*. Vancouver, BC, CANADA: March 2016.

\*Sakai, R., J Stanley-Asselmeier, M. Warren, S. Cruze, K. Brondo, and **A. Hill**. 2016. "Improving Outcomes for Conservation Voluntourism on the island of Utila, Honduras". Vancouver, BC, CANADA: March 2016.

\*Goddard, L., **A. Hill**, and Z. Wallace. 2015. "Analysis of Flood Vulnerability and Impacts in Memphis, TN". *Association of American Geographers*. Chicago, IL: April 2015.

\*Wallace, Z.C., **A. A. Hill**, and L.E. Goddard. 2015. "Social Vulnerability and Flood Disruption: Exploring the Relationship". *Association of American Geographers*. Chicago, IL: April 2015.

Burnette, D. and **A. Hill**. 2015. "Earth Sciences in Action: Ingredients and Aftermath of Recent Extreme Weather". *University of Memphis Earth Sciences Society Seminar*. Memphis, TN: April 2015. [invited]

**Hill, A.** 2014. "Disasters, Environmental Disruptions and Community Resilience". *The 13<sup>th</sup> Annual Grassroots Community Conference: Community Health, Environmental Justice and Clean Energy*. Memphis, TN: November 2014. [invited]

**Hill, A. A.** 2014. "Nature-Society Interactions: 2011 Mississippi River Flooding". *CRESH Program Invited Speaker*. Memphis, TN: July 2014. [invited]

**Hill, A. A.** 2014. "Riesgo y Resistencia" *Ecuador-University of Memphis Research Collaboration Working Session*. Memphis, TN: May 2014. [invited]



**Hill, A. A.**, B. A. Waldron, L. E. Goddard, and R. D. Nations, Jr. 2013. "GIS as a Platform for Regional Information Sharing in Emergency Management/Homeland Security". *Applied Geography Conference*. Annapolis, MD: October 2013.

**Hill, A. A.** 2013. "Human Environment Interactions: Curiosities and Approaches of a Hazards Geographer". *CRESH Program Invited Speaker*. Memphis, TN: July 2013. [invited]

**Hill, A.** 2012. "Value of the NMES to the Public and Emergency Management". *New Madrid Earthquake Scenario Workshop. National Earthquake Conference*. Memphis, TN: April 2012.

Cox, R.T., R. Van Arsdale, D. Clark, D. Lumsden, **A. Hill**. 2012. "Paleoseismic Results from 2011 SSA Fieldtrip Trench Across the Southeastern Reelfoot Rift Margin". *Seismological Research Letters*. 83(2): 375.

Waldron, B., R. Stieg, B. Perkins, **A. Hill**, and B. Nations. 2011. "GIS at the Core of Emergency Response: 2011 Mississippi River Flooding, Shelby County, TN". *11<sup>th</sup> Memphis Area Geographic Information Council (MAGIC) GIS Day Conference*. Germantown, TN: November 2011.

\*Markle, B., \*K. Correll, and **A. Hill**. 2011. "Environmental Change in the Wake of a Hurricane: A MS Gulf Coast Case Study". *Southeast Division of the Association of American Geographers Conference*. Savannah, GA: November 2011.

Waldron, B., **A. Hill**, and B. Nations. 2011. "Managing Response and Recovery to Mississippi River Flooding: Applying Spatial Analysis in Memphis/Shelby County, Tennessee". *Applied Geography Conference*. Redlands, CA: October 2011.

**Hill, A.** 2011. "Reel versus Real: Hollywood and Disaster Knowledge". *Rhodes College*. Memphis, TN: September 2011. [invited]

Waldron, B. and **A. Hill**. 2011. "Lessons for the 2011 Mississippi River: GIS as a Tool for Emergency Management". *Mid-South Association of Contingency Planners – EPIC conference*. Memphis, TN. 09/2011. [invited keynote].

Vicini, A., J. Bevington, R. Davidson and **A. Hill**. 2011. "Post-disaster Evaluation of Community-based Housing Recovery from Aerial Imagery: A Study of Punta Gorda, Florida following Hurricane Charley". *9<sup>th</sup> International Workshop on Remote Sensing for Disaster Response*. Stanford University, CA: September 2011.

**Hill, A.**, J. Bevington, and B. Adams. 2011. "Exploring the Resolution Quandary: Applying Lessons Learned to a Conceptualization of Optimal Imagery Resolutions for a Variety of Disaster Management Challenges". *9<sup>th</sup> International Workshop on Remote Sensing for Disaster Response*. Stanford University, CA: September 2011.

Waldron, B., T. Needham, and **A. Hill**. 2011. "Mississippi River Flooding 2011: Using GIS for Data, Mapping and Decisions Support". *TN Society of Professional Engineers & American Council of Engineering Companies of TN Annual Meeting and Professional Development Conference*. Franklin, TN: August 2011. [invited]

**Hill, A.**, B. Nations, B. Waldron. 2011. "Mississippi River Watch 2011: Using GIS as an Innovative Planning and Response Platform". *UASI/Homeland Security Conference*. San Francisco, CA: June 2011. [invited]

\*Correll, K., A. Vicini, J. Bevington, and **A. Hill**. 2011. "Exploring Environmental Recovery: A post-Hurricane Harrison County, MS Case Study". *Association of American Geographers*. Seattle, WA: April 2011.

**Hill, A.** and B. Waldron. 2011. "How do urban hazard mapping products find a place in local decision-making?". *Seismological Society of America*. Memphis, TN: April 2011.

- Bevington, J.S., **A. A. Hill**, R. A. Davidson, S. E. Chang, A. Vicini, B. J. Adams, and R. T. Eguchi. 2011. "Measuring, Monitoring, and Evaluating Post-Disaster Recovery: A Key Element in Understanding Community Resilience". *ASCE Structures Congress*. Las Vegas, NV: April 2011.
- Hill, A.** 2011. "Recipes for Disaster: Integrating the Human and Physical Characteristics of Place". *Natural and Unnatural Disasters Symposium – Re-thinking Memory, Re-vitalizing Public Debate* Marcus W. Orr Center for the Humanities. Memphis, TN: January/11. [invited]
- Hill, A. A.** and J. S. Bevington. 2010. "Post-disaster Applications of Geospatial Technologies: Experiences from Haiti". *School of Geography at Southampton University*. Southampton, UK: December 2010. [invited]
- Hill, A. A.** 2010. "Place Recovery: Hurricanes Charley & Katrina and post-Earthquake Haiti". *Centre for Risk in the Built Environment*. Cambridge University, Cambridge, UK: November 2010. [invited]
- Bevington, J., S. Pyatt, **A. Hill**, M. Honey, B. Adams, R. Davidson, S. Brink, S. Chang, D. Panjwani, R. Mills, P. Amyx, and R. Eguchi. 2010. "Uncovering Community Disruption Using Remote Sensing: An Assessment of Early Recovery in Post-earthquake Haiti." *8<sup>th</sup> International Workshop on Remote Sensing for Disaster Management*. Tokyo, Japan: September 2010.
- Bevington, J., R. Davidson, **A. Hill**, S. Chang, R. Eguchi, B. Adams, S. Brink, D. Panjwani, R. Mills, S. Pyatt, M. Honey, P. Amyx. 2010. "Assessing Community-scale Disruption and Restoration of Basic Needs in Post-earthquake Haiti". *Haiti RAPID and Research Needs Workshop*. Arlington, VA: September 2010. [invited]
- Hill, A. A.** 2010. "Community-scale Disruption in Post-earthquake Haiti." *University of Memphis Research Foundation- Quarterly Board Meeting*. Memphis, TN: September 2010. [invited]
- Hill, A. A.** 2010. "Exploring Community-scale Disruption and Restoration of Basic Needs in Post-earthquake Haiti." *Natural Hazards Annual Workshop*. Broomfield, CO: July 2010. [Invited Plenary Session]
- Adams, B. J., J. S. Bevington, S. E. Chang, R. A. Davidson, R. T. Eguchi, **A. A. Hill**, D. L. Rathfon, M. de Ruiter. 2010. "New Methods for Measuring, Monitoring, and Evaluating Post-Disaster Recovery". *Natural Hazards Annual Workshop*. Broomfield, CO: July 2010.
- J. S. Bevington, B. J. Adams, S. E. Chang, R. A. Davidson, **A. A. Hill**, R. T. Eguchi. 2010. "Measuring, Monitoring and Evaluating Post-Disaster Recovery – A Key Element in Understanding Community Resilience". *ASCE Structures Congress*. Las Vegas, NV: April 2010.
- Hill, A. A.**, and M.A. Rapino. 2010. "Haiti and the Human Dimension of Disaster". *University of Memphis Earth Sciences Society Seminar*. Memphis, TN: March 2010. [invited]
- Hill, A. A.** 2010. "Preparedness: Foundation for Resilience and Recovery." *Arkansas Governor's Earthquake Advisory Council*. Jonesboro, AR: February 2010. [invited]
- Hill, A. A.**, B. J. Adams, and J. Bevington. 2009. "Community Remote Sensing" *7<sup>th</sup> International Workshop on Remote Sensing and Disaster Response*. Austin, TX: October 2009.
- \*Murray, M.D., V. Cayson-Mason, **A. A. Hill**. 2009. "Spatial Patterns in Vulnerability and Home Foreclosures: Shelby County, TN" *Annual Meeting Association of American Geographers*. Las Vegas, NV: March 2009.
- Hill, A. A.** 2008. "Resilience, Response and Recovery: Societal Components of Catastrophe." *New Madrid Seismic Zone Conference*. Rolla, MO: August 2008. [invited key-note]
- Hill, A. A.**, S. K. Walen, D. Lannom. 2008. "Revealing Resilience in the Memphis Urban Area: A Community Research Project." *33<sup>rd</sup> Annual Hazards Research and Applications Workshop*. Boulder, CO: July 2008.

- Hill, A. A.** 2008. "Revealing Resilience: Learning in the Memphis Urban Area." *Local Emergency Planning Committee Meeting*. Memphis, TN: June 2008. [invited speaker]
- Hill, A. A.** 2008. "Researching Resilience: Learning in the Memphis Urban Area." *Annual Meeting Association of American Geographers*. Boston, MA: April 2008.
- \*Keys-Mathews, L. D. and **A. A. Hill**. 2008. "Image Processing Techniques Applied to Post-Disaster Imagery: What can we see?" *Annual Meeting Association of American Geographers*. Boston, MA: April 2008.
- \*Chen, J. and **A. A. Hill**. 2008. "A GIS-based Flood Loss Model: Urban Campus Case Study." *Annual Meeting Association of American Geographers*. Boston, MA: April 2008.
- Hill, A. A.** 2008. "Exploring Disaster Geography Using Remote Sensing." *Cambridge University*. Cambridge, UK: March 2008. [invited]
- Hill, A. A.** 2008. "Community and Regional Resilience Initiative (CARRI): Resilience Communities – Resilient Regions – A Resilient Nation." *InfraGard-Memphis*. Memphis, TN: February 2008. [invited]
- Hill, A. A.** 2008. "Social Vulnerability and Community Resilience." *West Tennessee Earthquake Awareness Week*. Memphis, TN: February 2008. [invited]
- Hill, A. A.** 2008. "Recovery to Resilience: Using Remote Sensing to Explore the Geography of Disaster." *University of Arkansas – Department of Geosciences Colloquium Series*. Fayetteville, AR: February 2008. [invited]
- Hill, A. A.** 2007. "Researching Resilience: A Learning Partnership in the Memphis Urban Area." *Tri-State Partners in Preparedness*. Tunica, MS: November 2007. [invited]
- Hill, A. A.** 2007. "Understanding Vulnerability and Resilience to Reduce Loss." *Earthquake Insight Field Trip*. Blytheville, AR: June 2007. [invited]
- Hill, A. A.**, B. J. Adams, L. D. Keys-Mathews, and D. M. Podolsky. "Monitoring Post-Katrina Infrastructure Recovery with Remote Sensing." *Structural Engineering Institute 2007 Structures Congress*. Long Beach, CA: May 2007. [invited]
- \*Bateman, J., **A. A. Hill**, and M. M. Withers. 2007. "Communicating Ground Motion in Mid-America: ShakeMap Users Survey." *Annual Meeting Association of American Geographers*. San Francisco, CA: April 2007.
- \*Keys-Mathews, L. D. and **A. A. Hill**. 2007. "A Holistic Approach to Exploring Disaster Recovery: Combining Remote Sensing, Fieldwork and Traditional Individual Surveys." *Annual Meeting Association of American Geographers*. San Francisco, CA: April 2007.
- Hill, A. A.** 2007. "Lifelines and Community Resilience." *2007 Annual Meeting of the Mid-America Earthquake Center*. Chicago, IL: February 2007.
- Hill, A. A.** 2007. "Vulnerability and Resilience: Preparing Small Business for Loss Reduction." *West Tennessee Earthquake Awareness Week*. Memphis, TN: February 2007. [invited]
- Hill, A. A.**, L. D. Keys-Mathews, B. J. Adams, and D. Podolsky. 2006. "Remote Sensing and Recovery: A Case Study on the Gulf Coast of the United States." *4<sup>th</sup> International Workshop for Remote Sensing and Post-Disaster Response*. Cambridge, UK: September 2006. [invited]
- Hill, A. A.** 2006. "Vulnerability Science and the Art of Resilience." *InfraGard-Memphis*. Memphis, TN: August 2006. [invited]

- Lynn, K., **A. A. Hill**, and J. Bateman. 2006. "Wildfire Resilience in Rural Communities of the Pacific Northwest." *31<sup>th</sup> Annual Hazards Research and Applications Workshop*. Boulder, CO: July 2006.
- \*Podolsky, D., B. J. Adams, **A. A. Hill**, and L. D. Keys-Mathews. 2006. "Recovery and Remote Sensing on the Gulf Coast Post-Katrina." *31<sup>th</sup> Annual Hazards Research and Applications Workshop*. Boulder, CO: July 2006.
- Hill, A. A.** 2006. "Planning Practice: Managing Land Use to Build Resistance." *Mid-South Planning and Zoning Institute*. Memphis, TN: March 2006. [invited key-note]
- Hill, A. A.** 2006. "Vulnerability Science and Vulnerable Populations: Protecting and Preparing for Disaster." *UT Medical School – Boling Center*. Memphis, TN: March 2006. [invited]
- \*J. Bateman, **A. A. Hill**, K. Lynn. 2006. "Community Resilience and the 2005 Deer Creek Fire." *Annual Meeting Association of American Geographers*. Chicago, IL: March 2006.
- Hill, A.** 2005. "Assessing the Vulnerability of People and Places." *Earthquake Program Manager and Public Information Officer Meeting*. Tunica, MS: November 2005. [invited]
- Hill, A.,** J. Mitchell, L. Keys-Mathews. 2005. "Blowing and Growing: Hurricanes in the Southeast." *90<sup>th</sup> Annual Meeting of the National Council for Geographic Education*. Birmingham, AL: October 2005.
- \*Keys-Mathews, L. and **A. Hill**. 2005 "Shake, Rattle, and Roll: Earthquakes in the Southeast." *90<sup>th</sup> Annual Meeting of the National Council for Geographic Education*. Birmingham, AL: October 2005.
- Hill, A. A.** and L. Keys-Mathews. 2005. "Geography, Disasters and Recovery." *3<sup>rd</sup> International Workshop for Remote Sensing and Post-Disaster Response*. Chiba, Japan: September, 2005. [invited]
- Hill, A.** 2005. "Vulnerability of Place: Strengthening Communities." *Briefing for Director TN District-11 Homeland Security Council*, Memphis, TN: May 2005. [invited]
- \*Keys-Mathews, L., W. R. Strong, and **A. A. Hill**. 2005. "An Urban Morphology Analysis of San José, Costa Rica." *Annual Meeting Association of American Geographers*. Denver, CO: April 2005.
- Hill, A.** 2005. "Risk and Vulnerability Assessment in Mid-America." *Mid-America Earthquake Center Short Course: Earthquake Ground Motions in Mid-America*. Little Rock, AR: April 2005. [invited]
- Hill, A. A.** 2005. "Assessing Risk and Resilience." *InfraGard-Memphis*. Memphis, TN: February 2005. [invited]
- Hill, A. A.** 2005. "Risk and Vulnerability Assessments." *Mid-South Chapter of the Association of Contingency Planners*. Memphis, TN: February 2005. [invited]
- Cox, R. T., J. B. Harris, **A. A. Hill**, S. L. Forman, C. Gardner, R. Csontos. 2004. "More Evidence for Young Tectonism Along the Saline River Fault Zone, Southern Mississippi Embayment." *American Geophysical Union Annual Meeting*. San Francisco, CA: December 2004.
- Hill, A. A.** 2004. "Hazard History and Projections." *Farm Bureau Insurance Annual Meeting*. Hot Springs, AR: June 2004. [invited]
- Hill, A. A.** 2004. "Reality of Resilience: The 2003 Summer Storm in Memphis, TN." *University of Memphis Provost's Convocation Seminar Series*. Memphis, TN: April 2004. [invited]
- Cox, R. T., D. Larsen, and **A. A. Hill**. 2004. "More Paleoliquefaction data from Southeastern Arkansas: Implications for Seismic Hazards." *Geological Society of America Northeastern & Southeastern Joint Section Meeting*. Washington, DC: March 2004.

- \*Sjostrom, E. D., **A. A. Hill**, E. Ozdenerol. 2004. "Distribution of Nutrition Levels among Age, Gender, and Geographic Location: An Indian Study." *Annual Meeting Association of American Geographers*. Philadelphia, PA: March 2004.
- Hill, A. A.** 2003. "Hazardscapes: Spatial and Temporal Patterns of Loss in the United States." *CERI-USGS Seminar Series*. Memphis, TN: October 2003. [invited]
- Hill, A. A.** 2003. "Hazards of Place and the Place of Hazards." *University of Memphis Geo Society*. Memphis, TN: October 2003.
- Hill, A. A.** 2003. "Communicating Uncertain Risk." *Arkansas Governor's Earthquake Advisory Council*. Blytheville, AR: August 2003. [invited]
- Hill, A. A.** 2003. "Uncertainty, Forecasts and Behavior: Hurricane Experiences in Horry County, South Carolina." *28<sup>th</sup> Annual Hazards Research and Applications Workshop*. Boulder, CO: July 2003. [invited]
- Hill, A. A.** 2003. "Getting Disciplines to Work Together: From Theory towards Practice." *28<sup>th</sup> Central United States Earthquake Consortium Annual Meeting*. Nashville, TN: July 2003. [invited]
- Hill, A. A.** 2003. "Winds of Change: Hurricane Evacuation Culture in Horry County, South Carolina." *Annual Meeting Association of American Geographers*. New Orleans, LA: March 2003.
- Hill, A. A.** 2003. "Scientific Uncertainty & Behavior: Hurricane Hazards in Horry County, South Carolina." *Geography and Geosciences Department Colloquium Series, Bloomsburg University*. Bloomsburg, PA: February 2003. [invited]
- Mitchell, J. T., **A. Hill**, S. L. Cutter, M. Baker, and S. Jones. 2002. "Transitory Trouble: Inter- and Intrastate Hazardous Materials Flow in South Carolina." *Annual Meeting Middle States Division of the Association of American Geographers*. Montclair, NJ: October 2002.
- Hill, A. A.** 2002. "Eyes on the Storm: Communicating Hurricane Risk to Coastal Residents." *Annual Meeting Association of American Geographers*. Los Angeles, CA: March 2002.
- Hill, A. A.** 2001. "Perceptions of Climate Change and Greenhouse Gas Reduction Strategies: Gender and Regional Variability." *26<sup>th</sup> Annual Hazards Research and Applications Workshop*. Boulder, CO: July 2001.
- Hill, A. A.** 2001. "Hurricane Floyd in South Carolina: Uncovering Patterns in Evacuations with a Neural Network." *South Carolina Academy of Science*. Conway, SC: March 2001.
- Hill, A. A.** 2001. "Uncertainty and Behavior: Hurricane Hazards in Coastal South Carolina." *Natural Hazards Research and Applications Information Center*. Boulder, CO: March 2001.
- Hill, A. A.** 2001. "Hurricane Floyd in South Carolina: Uncovering Patterns in Evacuations with a Neural Network." *Annual Meeting Association of American Geographers*. New York, NY: February 2001.
- Hill, A. A.** 2000. "Uncertainty and Behavior: The Hurricane Hazard in Horry County, South Carolina." *25<sup>th</sup> Annual Hazards Research and Applications Workshop*. Boulder, CO: July 2000.
- Cutter, S. L. and **A. Hill**. 1999. "Chronic Environmental Burdens: Spatial Variability in Potential Risk Exposures." *Society of Risk Analysis Meeting*. Atlanta, GA: December 1999.
- Mitchell, J. T., D. S. K. Thomas, **A. A. Hill**, and S. L. Cutter. 1999. "Catastrophe in Reel Life versus Real Life: Perpetuating Disaster Myth through Film." *Middle States Division, Association of American Geographers, 1999 Annual Meeting*. West Chester, PA: October 1999.

**Hill, A. A.** 1999. "Gender and Global Climate Change: Differences in Perceptions and Willingness to Mitigate." *24<sup>th</sup> Annual Hazards Research and Applications Workshop*. Boulder, CO: July 1999.

## TEACHING ACTIVITY

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ESCI 1010: Weather and Climate  
 UNHP 1100: Honors Forum on Nature: Perceptions, Preservation, and Environmental Values  
 ESCI 1301: Survey of World Regions  
 EMGT/ESCI/PADM/UNIV 3100: Seminar in Emergency Management  
 EMGT 4000: Emergency Management Internship  
 ESCI 4220/6220: Geology & Hazards of Earthquakes (team taught with Dr. Schweig)  
 ESCI 4251/6251: Environmental Hazards  
 UNIV 4380 Individual Studies  
 ESCI 4/6252: Global Environmental Change (taught independently and as team with Drs. Burnette and Dye)  
 ESCI 4612: Special Topics in Geography - Hazards and Vulnerability  
 ESCI 4621: Investigations in Geography  
 ESCI 4700: Earth Sciences Internship  
 ESCI 4701/6701: Feld Excursion  
 ESCI 4731: Senior Thesis  
 ESCI 4801: Geographic Thought & Application  
 ANTH 4990/6990: Special Topics in Anthropology - Gender and Environment (team taught with Dr. Brondo)  
 ANTH 4992: Special Topics in Anthropology - The "Un-naturalness" of Disaster Losses (taught Dr. Checker)  
 ESCI 6700: Earth Sciences Internship  
 ESCI 7000: Art of Earth Sciences (taught independently and as team with Dr. Mickelson)  
 ESCI 7250: Hazard/Risk Assessment (taught independently and team with Fulbright Visitor Dr. Kegyes-Brassai)  
 ESCI 7541/8541: Field Studies in Geography (team taught with Dr. Wasklewicz)  
 ESCI 7621: Independent Study  
 ESCI 7801: Geographic Thought & Application  
 ESCI 7900: Professional Paper  
 ESCI 7990: Research in Earth Sciences  
 ESCI 7996: Thesis Preparation  
 ESCI 9000: Dissertation Preparation

## ADVISING AND MENTORING

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DOCTORAL STUDENTS – HILL AS ADVISOR AND COMMITTEE CHAIR			
Student	Degree	Thesis/ Dissertation Title	Graduation
Lisa Keys-Mathews	Ph.D. Earth Sciences	A geographic investigation of hazards, disasters and recovery using satellite imagery.	08/2007
Monika Mihir	Ph.D. Earth Sciences	Process-form relationships in debris flow fans, Owens Valley, California.	08/2008
Jian Chen	Ph.D. Earth Sciences	GIS-based modeling of urban flood hazard and associated loss estimation.	12/2008
Zebulon Wallace	Ph.D. Earth Sciences	Topic: emergency management, perception and resilience.	05/2017
Lauren Goddard	Ph.D. Earth Sciences	Topic: GIS and emergency/mitigation planning	TBD (part-time)

<b>MASTERS STUDENTS – HILL AS ADVISOR AND COMMITTEE CHAIR</b>			
E. Sjostrom	MS in Earth Sciences - Geography Concentration	Protein energy malnutrition vulnerability in nine selected states of India.	08/2004
J. Bateman	MS in Earth Sciences – Geography Concentration	Perceptions and awareness of earthquake hazards in Memphis, Tennessee: A college student case study.	08/2008
K. Correll	MS in Earth Sciences – Geography Concentration	When Damage is constructive: Interactions of Hurricane Damage Levels with Disturbance Based Forests.	08/2012
R. Bailey	MA in Earth Sciences – Geography Concentration	A Retrospective Exploration of Petroleum Transportation Incidents: Comparing Five Modes.	12/2013
L. Goddard	MS in Earth Sciences – Geography Concentration	End-user Perspectives of GIS in Emergency Management Organizations: A Case Study of West Tennessee Counties.	05/2014
D. Guerra-Monje	MA in Earth Sciences	Drought As An Environmental Stress on Society.	12/2015
M. Warren	MA in Earth Sciences – Geography Concentration	Resilience and Conservation in Utila Honduras	12/2016
<b>DOCTORAL STUDENTS – HILL AS COMMITTEE MEMBER</b>			
D. Staley	Ph.D. Earth Sciences	Linking process and form on alpine talus cone systems: Colorado Front Range, USA.	12/2006
S. Fonji	Ph.D. Earth Sciences	Topic: Landuse/Land cover change and remote sensing.	05/2013
C. Thibault	Ph.D. Earth Sciences	The Movement of Storm Surge through a Surficial Coastal Aquifer	08/2017
J. Kutliroff	Ph.D. Earth Sciences	Probabilistic seismic hazard assessment and attenuation relations in the Central US and in Israel.	08/2017
B. Baker	Ph.D. Earth Sciences	Topic: Tornado Climatology	12/2019
T. Armstrong	Ph.D. Earth Sciences	Topic: Paleoseismology in China	TBD
T. Alexander	Ph.D. Earth Sciences	Topic: Meteorology Hazards and Aviation	TBD
K. Aziz	Ph.D. Civil Engineering	Topic: Community Resilience to Flash Flooding	TBD
M. Martin	Ph.D. Earth Sciences	Topic: Archaeology and Resilience	TBD
K. Proctor	Ph.D. Earth Sciences	Topic: Archaeology	TBD
K. Azizi	Ph.D. Civil Engineering	Topic: Flood Resilience	TBD
<b>MASTERS STUDENTS – HILL AS COMMITTEE MEMBER</b>			
M. Mize	ME – Civil Engineering	Assessment of seismic vulnerability of the University of Memphis main campus buildings.	08/2006
L. Bauer	MS in Earth Science - Geophysics Concentration	Studies of historic and pre-historic earthquake induced liquefaction features in the meizoseismal area of the 1811-1812 New Madrid earthquake, Central U S.	08/2006
J. Abart	MS in Earth Science - Geography Concentration	The spatial variability of talus cone topography, Arapahoe Basin, Colorado, USA.	08/2007
A. McColgan	MS in Earth Science - Geography Concentration	Rates and forms of tafoni weathering from terrestrial laser scanning data.	08/2007

J. Kutliroff	MS in Earth Science - Geophysics Concentration	Seismic hazard mapping for Israel and adjoining areas of the Mideast.	08/2008
R. Almond	MS in Earth Science – Geography Concentration	Online education of public participants in the data collection process for the monitoring of Giant Hogweed in Latvia	08/2011
M. Larrivee	MS in Earth Sciences – Geography Concentration	Using PPGIS and remote sensing to inventory invasive Giant Hogweed in Latvia	05/2011
F. Javadnejad	ME – Civil Engineering	Flood Inundation Mapping Using HEC-RAS and GIS for Shelby County in Tennessee	12/2013
H. Brown Nelson	MA in Liberal Studies		2013
R. Nations, Jr.	MA in Liberal Studies		2013
B. Porter	MA in Earth Sciences – Geography Concentration	Flood Susceptibility & Topographic Mapping of the Birds Point New Madrid Floodway	12/2015
C. Soplata	MS in Earth Sciences – Geology Concentration	Landslide Hazard Assessment and Mitigation	12/2016
A. Murphy	MS in Earth Sciences – Geography Concentration	A Geospatial Investigation of the Potential for Inter-Aquifer Communication in Shelby County, Tennessee: A multi-scale Spatial Dependency Model	12/2017
D. West	MA in Earth Sciences	Topic: Spatial mis-match in Memphis, TN	05/2019
T. Gates	MS in Earth Sciences – Archaeology Concentration	Spatial Analysis of Unit-6 at the Chucalissa Site: Evaluating the late Mississippian Period Main Residential Area	05/2019
M. Field	MS in Earth Sciences – Geography Concentration	Species migration and drought impacts on eastern North American forests	08/2019
K. Proctor	MS in Earth Sciences – Archaeology Concentration	Spatial analysis of soils, archaeological prospecting, settlement-subsistence systems	08/2019
K. Menietto	MS in Earth Sciences – Archaeology Concentration	Investigating Settlement Patterns at Ames Plantation in Western TN	Anticipated 05/2020
P. Bradley	MS in Earth Sciences – Geography Concentration	Reducing Tornado Warning False Alarm Rates Across the Memphis County Warning Area	Anticipated 05/2020
E. Woolsey	MA in Earth Sciences		TBD
<b>SENIOR HONORS THESIS – HILL AS ADVISOR</b>			
M. Field	BA in Earth Sciences – Geography Concentration	Predicting the Gatlinburg Fire: An Examination of Drought and Fire History	05/2017
J. Wilburn	BPS with concentration in Emergency Management	Exploring Resilience: Foundations of Vulnerability and Resilience in Natural Disasters	12/2019



## SERVICE AND OUTREACH ACTIVITIES

INTERNATIONAL	
ACTIVITY	TIME PERIOD
Chair, Samuel Henry Prince Dissertation Award Committee The International Research Committee on Disasters	2011 – 2016
Member, Samuel Henry Prince Dissertation Award Committee The International Research Committee on Disasters	2008 – 2011
Workshop Resolution Facilitator 9 <sup>th</sup> International Workshop on Remote Sensing for Post-Disaster Response	2011
Session Moderator 9 <sup>th</sup> International Workshop on Remote Sensing for Post-Disaster Response	2011
Program Committee – Session Organizer and Program Compiler 7 <sup>th</sup> International Workshop on Remote Sensing for Post-Disaster Response	2009
Steering Committee Member, Indicators for Measuring, Monitoring and Evaluating Post-Disaster Recovery Project, Cambridge University Center for Risk in the Urban Environment	2007 – 2009
Organizing Committee Member 4 <sup>th</sup> International Workshop on Remote Sensing for Post-Disaster Response	2006
Organizing Team Member, World Adobe Forum	2005 – 2006
Invited Participant and Session Recorder, United Nations: Gender Equality Disaster Risk Reduction Workshop	05/2004

NATIONAL	
ACTIVITY	TIME PERIOD
Reviewer, Lewis and Clark Fund Grants and Fellowships American Philosophical Society	Spring 2020
Session Moderator, National Conference for Undergraduate Research	04/2017
Reviewer, National Conference for Undergraduate Research	12/2016
Reviewer, Lewis and Clark Fund Grants and Fellowships American Philosophical Society	Spring 2014 Spring 2013 Spring 2012
Memphis Team Lead/POC, Hurricane Sandy Damage Assessment Group, ImageCat for FEMA.	November 2012
Invited Reviewer National Academy of Sciences/National Research Council “Integrating Dam and Levee Safety and Community Resilience” Report	Spring 2012
Member, Association of American Geographers World Geography Bowl Committee	2003 – 2011
Invited Reviewer National Academy of Sciences/National Research Council “Tsunami Warning and Preparedness” Report	Summer 2010
Invited Participant National Academy of Sciences/National Research Council Applications of Social Network Analysis for Building Community Disaster Resilience Workshop	02/2009
Session Coordinator and Moderator, 2008 National Earthquake Conference	04/2008
Gender Issues in Disasters Session Organizer and Moderator, 30 <sup>th</sup> Annual Hazards Workshop	07/2005
Member, Mid-America Earthquake Center Diversity Council	2004 – 2006
Member, Earthquake Engineering Research Institute Remote Sensing Committee and Liaison to IT Committee	2004 – 2006
Session Organizer & Moderator, 2004 National Earthquake Conference	2004
Programming/Agenda Committee Member, 2004 National Earthquake Conference	2004
Member, Information Technology Committee Earthquake Engineering Research Institute	2003 – 2005
Manuscript Reviewer for the following journals: ASCE Natural Hazards Review, Southeastern Geographer, Earthquake Spectra,	2002 – present

Environmental Hazards: Human and Policy Dimensions, Applied Geography Conference, Geographical Review, USGS Internal Reviews, Mid-America Earthquake Center, Disasters	
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<b>REGIONAL</b>	
<b>ACTIVITY</b>	<b>TIME PERIOD</b>
Member, Program External Review Committee – East Tennessee State University (Geosciences)	2019
Member, TN Resilience Council	2018 – present
Member, Training and Exercise Committee Memphis Urban Area Security Initiative	2010 – 2014
Member, GIS and Information Sharing Committee Memphis Urban Area Security Initiative	2008 – 2014
Associate Member, Mid-South Association of Contingency Planners	2008 – 2013
Member, Research Advisory Board Southeast Regional Research Initiative (SERRI) at Mississippi State University	2009 – 2011
Steering Committee Member, New Madrid Earthquake Scenario Executive Committee	2008 – 2011
Project Advisory Board Member, Mississippi State University’s Disruption to Rail – Impacts Analysis and Decision Support (DRAIDS) Project	2008 – 2010
Member, World Geography Bowl Committee, Southeast Division of Assoc. of American Geographers	2003 – 2010
Nominee, Tennessee State Representative to the Southeast Division of the Association of American Geographers	2009
Technical Working Group Member, St. Louis Earthquake Hazard Mapping Project.	2006 – 2009
Working Group Member and Community Research Liaison Community and Regional Resilience Initiative, Oak Ridge National Laboratory	2007 – 2008
Invited Speaker, Earthquake Insight Field Trip	2007
Participant and Discussion Leader: USGS/MAEC Workshop: Economic and Social Impacts of Scenario Earthquakes	10/2005
Member, Annual Meeting Program Committee, Southeast Division of Association of American Geographers	2004

<b>COMMUNITY/LOCAL</b>	
<b>ACTIVITY</b>	<b>TIME PERIOD</b>
Water Watch Task Force. Shelby County Office of Preparedness	Spring 2012 – 2014
Guest Speaker: “Weather Disasters” Sherwood Middle School, Memphis TN	02/2012
GIS Task Force, RiverWatch 2011 – Volunteer Shelby County Emergency Operations Center	04/27/11 – 06/10/11
Workshop Leader, 1 <sup>st</sup> Annual Expanding Your Horizons conference – Girls Empowered for Math & Sciences Program	10/2008
Co-Organizer and Co-Moderator, Resilience Summit, West Tennessee Earthquake Awareness Week	02/2008
Member, Memphis/Shelby County Urban Area Security Initiative Working Group	2008 – 2014
Invited Speaker, New Madrid Seismic Zone Workshop for Risk Managers and Insurers, West Tennessee Earthquake Awareness Week	02/2008
Interviewed Guest for the 3 part WKNO Series: “It Matters - Are We Prepared?”	12/2007
Invited Speaker, Hispanic Chamber of Commerce Workshop, West Tennessee Earthquake Awareness Week	02/2006
Panelist, Public Forum, “Preparing for the Big Earthquake: Memphis’ Katrina”	10/2005
Briefing for Tennessee District 11 Homeland Security Director	05/2005
Guest on Sierra Club TV Program: <u>The Nature of Conservation: “Environmental Hazards and Disasters”</u>	05 – 06/2005

<b>UNIVERSITY</b>	
<b>ACTIVITY</b>	<b>TIME PERIOD</b>
Reviewer, Quaesitum	2020
Safety Palooza "Vendor"	09/ 2019
Member, Tenure and Promotion Appeal Committee	2019 – present
Member, Institutional Review Board Executive Committees (as needed)	2017 – present
Preparedness Placards Service-Learning Project – Crisis Management Team	2016 – present
Member, Crisis Management Team	2014 – present
Member, Institutional Review Board	2013 – present
Faculty Evaluator, Honors College Works in Progress Symposium	10/2017
Faculty Evaluator, Student Research Forum	03/2017
Member, Research Misconduct Committee	11/2016
Co-Organizer and Speaker, Crisis Preparedness and Response Seminar	01/13/16
Facilitator, Table Top Exercise (Policy and Operations Groups) Crisis Management Team	11/12/15
Curriculum Developer, Emergency Management Concentration of the Professional Studies Undergraduate Program, University College.	05/2014 – 01/2015
Member, Asst/Assoc Professor of Environmental Health Science Search. School of Public Health	2013
Member, Study Abroad Scholarship Committee	2015
Faculty Associate, Center for Partnerships in GIS (CPGIS)	2011 – 2015
Faculty Affiliate, Ecological Research Center	2009 – present
Member, Assistant Professor of Environmental Health Search, School of Public Health	2011 – 2012
Chair, Provost's Disaster Relief Center Planning Committee	2011
Member, Web Designer Search Committee. Center for Partnerships in GIS (CPGIS)	2011
Member, Project Coordinator Search Committee. Center for Partnerships in GIS (CPGIS)	2011
Member, Disaster Management Minor Working Group	2006 – 2011
Member, Associate Director Search Committee. FedEx Institute of Technology	2010
Founding Member, Center for Disaster Resistant Communities	2009
Steering Committee Member, Mid-South Survey Center	2008 – 2009
Search Committee Member, Emergency Preparedness Coordinator – New Position	2008
Member, Hazards Area of Focus/Excellence Committee	2004 – 2008
Faculty Mentor, Fresh Connections – Freshman Learning Community Program	2007
Search Committee Member, Center or Partnerships in GIS Assistant Director – New Position	2007
Curriculum Development Team Member, School of Public Health Program (MPH and DrPH)	2006 – 2007
Member, Vice Provost for Research's Faculty Mentoring Group	2006
Session Chair & Panelist, Fall 2005 Faculty Research Colloquium	10/2005
Panelist, 2004 Faculty Convocation Seminar	04/2004
University Representative, Tennessee State Homeland Security Consortium	2003 – 2004

<b>COLLEGE OF ARTS AND SCIENCES</b>	
<b>ACTIVITY</b>	<b>TIME PERIOD</b>
Member, City and Regional Planning Environmental Planning Search Committee	2019-2020
Member, College of Arts and Sciences Graduate Council	2018
Co-chair, City and Regional Planning Assistant/Associate Professor Search Committee	2018-2019
Member, City and Regional Planning Assistant/Associate Professor Search Committee	2017-2018
Advisor, Emergency Management Minor	2012 – present
Faculty Affiliate, International Studies Program	2015 – present
Faculty Affiliate, Center for Research on Women (CROW)	2015 – 2017
co-Chair, Gender & Environment Research Interest Group, Center for Research on Women (CROW)	2015 – 2016
Mentor, MemphisCRESH program (College Research Experience for Students in High School)	Summer 2014
Participant, Annual Great Conversations Program Title: Disaster Memory and Lessons Learned: Translating Experiences into Resilience.	04/2014
Mentor, MemphisCRESH program (College Research Experience for Students in High School)	Summer 2013
Member, CAS Distinguished Research & Engaged Scholarship Awards Selection Committee	2012

Member, CAS Graduate Council	2009 – 2012
Member, CAS Early Career Research Award Selection Committee	2010 and 2011
Participant, 5 <sup>th</sup> Annual Great Conversations Program Title: When Nature and Society Collide.	03/2006
Participant, 4 <sup>th</sup> Annual Great Conversations Program Title: Indian Ocean Tsunami: The Power of Nature & Resilience of People	04/2005

<b>DEPARTMENT OF EARTH SCIENCES (ESCI)</b>	
<b>ACTIVITY</b>	<b>TIME PERIOD</b>
Acting Department Chair	06/2019
Chair, Tenure and Promotion Committee	2018 - 2020
Acting Department Chair	06/2018
Chair, Administrative Associate Search Committee	2019
Co-chair, Visiting Assistant Professor in Sedimentology Search	2018
Chair, Curriculum Committee	2018 - 2019
Member, Administrative Associate Search Committee	2018
Chair, Committee to Explore Introductory Lab Coordination Needs	2017
Member, Curriculum Committee	2017 – present
Chair, Committee to Develop Environmental Science Concentration for Undergraduate Program	2016 – 2017
Course Scheduler	2014 – 2017
Chair, Curriculum Committee	2014 – 2017
Member, Tenure and Promotion Committee	2009 – present
Member, Earth Sciences Department Chair Search Committee	2014
Geography Representative, ESCI Graduate Program Committee	2007 – 2013
Chair, Instructor Search Committee	2013
Co-chair, Assistant Professor Search Committee	2012
Acting Graduate Program Coordinator	08/2012 – 12/2012
Member, Assistant Professor Search Committee	2011 – 2012
Member, Financial Administrative Associate Search Committee	2012
Faculty co-advisor, Earth Science Society	2011 – 2012
Member, Assistant Professor Search Committee	2010
Member, Geography Instructor Search Committee	2010
Member, Faculty Mentoring Committee – J. Finley	2010 – 2012
ESCI Introductory Courses Lab/Teach Assistant Coordinator	2009 – 2012
Graduate Program Coordinator	2009 – 2012
Member, Faculty Mentoring Committee – M. Rapino	2009 – 2010
Member, Associate Professor Search Committee	2007 – 2008
Member, Assistant Professor Search Committee – Urban Economic	2007 – 2008
Member, Assistant and Associate Professor Search Committees	2006
Member, Geography Associate Professor Search Committee	2005
Coordinator, Hazards Research Focus Group	2004
Chair and Co-Chair, Undergraduate Curriculum Committee	2005
Member, Undergraduate Curriculum Committee	2004 and 2006
Faculty Advisor, Earth Sciences Society	2003 – 2004