Stacy A. Doore

University of Maine
School of Computing and Information Science
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Profile

Human-Computer Interaction; User Experience/User Interaction; Spatial Informatics, Spatial Cognition, Spatial Linguistics; Knowledge Representation, Ontology and Formal Logic; Program Evaluation; Quantitative /Qualitative Research Methodology.

Education

Ph.D. Spatial information Science and Engineering **expected May 2017**
School of Computing and Information Science, University of Maine
Dissertation Title: *Role of spatial prepositions for natural language indoor scene description and navigation.* Chair: Dr. Kate Beard, Professor, School of Computer and Information Science
Degree Emphasis on Spatial Information Systems: indoor space, knowledge representation and ontologies, spatial linguistics, human-computer interaction, AR assistive technologies design.
NSF IGERT Trainee-Sensor Science, Engineering and Informatics (2010-2012).

M.S. in Spatial Information Science and Engineering **May 2010**
College of Engineering, University of Maine
Master's Thesis: *Modeling a personal exposure history through event-event relationships*
Degree Emphasis on Spatial Information Systems: spatio-temporal events, knowledge representation and ontologies, spatial epidemiology, and spatial analysis methods.
NSF GK-12 Sensors Fellow, GIS and Spatial Analysis (2007-2010).

B.A. in Anthropology **May 1999**
College of Liberal Arts and Sciences, University of Maine
Honor's Thesis*: Religion, identity and gender equity among North American Sikhs*
Degree focus: intersectional gender identity, South Asian religion and politics, migrant communities, and qualitative research methodology.

B.S. in Elementary Education **May 1999**
College of Education and Human Development, University of Maine
Degree focus: geography and social studies in Grades 6-12.

Professional Experience

Internal Evaluator **2013-present**
NSF ADVANCE Rising Tide, University of Maine
Developed institutional transformation logic model and evaluation plan for $3.2 million NSF program to increase STEM female faculty and improve organizational climate. Maintain evaluation agenda including collecting quantitative and qualitative data, survey design and analysis, program reporting. Chair Data Subcommittee for Provost's Leadership Council. Organize and serve on ADVANCE meeting panels (2014-2016); co-author research with program Co-PIs.

Translational Research Coordinator **May 2016-present**
Virtual Environment Multimodal Interaction Laboratory (VEMI), University of Maine
Develop research and industry partnerships for laboratory. Assist in training of undergraduate and graduate students in research design and methodology. Coordinate dissemination of lab research and outreach.

Internal Evaluator **2014-present**
Canadian-American Center, University of Maine
Developed performance measures and evaluation plan for four year U.S. Dept. Of Education National Resource Center grant to increase post-secondary participation in Canadian and French language content courses and degree programs. Maintain evaluation agenda including the collection of quantitative and qualitative data and program reporting.

Internal Evaluator **2013 -2016**
Forest Bioproducts Research Institute, University of Maine
Developed and implemented evaluation plan for Sustainable Leaders of the Future (SELF) program focused on increasing STEM interest and leadership skills in high school girls from rural Maine. Selection and administration of nationally normed instruments for measuring STEM career interest, gender biases, and program satisfaction. Conducted focus groups and program outcome evaluation.

Qualitative Research Consultant **2014-2015**
Eastern Maine Health Systems Clinical Research Group, Bangor, Maine
Conducted total of 20 phone interviews with patients, doctors and hospital administrators regarding electronic patient portal system. Conducted analysis and reporting of findings with implications for improvements to system, workflow and patient care.

Spatial Data Analyst and Program Evaluator **2012-2013**
Center for Research and Evaluation, University of Maine
Coordinated research agenda for Maine Department of Education Student Longitudinal Data System mobility project. Spatial-temporal modeling of student mobility data; Conducted longitudinal spatial temporal analysis of relationship between mobility and student academic outcomes. Conducted text & sentiment analysis of system level learning technologies and teaching methods for University of Maine System T4 evaluation project.

NSF IGERT Trainee-Cohort Leader **2010-2012**
NSF IGERT Trainee-Sensor Science, Engineering and Informatics, University of Maine
Led cohort team in the development of real-time indoor formaldehyde monitoring system. Developed ontology for data collection and analysis. Conducted prototype development and testing. Coordinated project management, reporting, and research dissemination activities.

Instructor - EDT 598 GIS in Education **2009-2010**
College of Education and Human Development, University of Maine
Co-developed and co-taught graduate level education course for teachers in using GIS technologies and applications in middle and high school classrooms to teach spatial thinking, analysis and research skills.

Graduate Student Research Assistant **2008-2010**

National Center for Geographic Information and Analysis, University of Maine
Conducted spatial analysis for Department of Defense's Maine Cancer GIS project, a partnership with Maine Institute for Human Genetics and Health, Jackson Lab, and the University of Maine.

NSF GK-12 Fellow-GK-12 Sensors! **2007-2010**
NSF GK-12 Sensors!, University of Maine
Co-developed and taught first GIS course in Maine for high school sophomores and juniors with a particular emphasis on promoting engineering and computer science career paths for girls. Adapted and co-taught course as a graduate level teacher education offering (EDT 598) in the College of Education and Human Development in the fall of 2009.

Research Associate, Research and Evaluation Team **2003-2007**
Center for Community Inclusion and Disability Studies, University of Maine
Conducted qualitative research and analysis for assistive technologies development project, assisted with survey design, validation and field testing, and information system support.

Research Associate, Professional Development and Database Developer **2001-2003**
National Center for Student Aspirations, University of Maine
Conducted qualitative research and analysis for improving school climate and student outcomes, assisted with survey design, professional development module training, and information system support.

Middle School Educator, Gr 7 and 8 **1999-2001**
J.A. Leonard Middle School, Old Town, Maine
Developed curriculum and student assessments math, social studies and language arts classes.

Publications

Doore, S. (2016). Spatial preposition specification for improved small scale navigation, in: Onsrud, H. and Kuhn, W. (eds.) *Advancing Geographic Information Science: The Past and Next Twenty Years*. The Global Spatial Data Infrastructure Association, Santa Barbara, CA.

Gardner, S. and Doore, S. (2016). Institutional Transformation through Innovative Internal Advisory Boards. *Association for Women in Science (AWIS) Magazine.* Fall 2016

Sorondo, B., Allen, A,. Bayleran, J., Doore, S., Fathima, S., Sabbagh, I., and Newcomb, L. (2016). "Using a Patient Portal to Transmit Patient Reported Health Information into the Electronic Record: Workflow Implications and User Experience," *eGEMs (Generating Evidence & Methods to improve patient outcomes)*: 4 (3).

Mahmood, C.K. and Brady(Doore), S.A. (2000). *The Guru's Gift: An Ethnography Exploring Gender Equality with North American Sikh Women.* New York McGraw Hill.

Refereed Conference Papers and Presentations

Doore, S.A., Beard, M.K. and Giudice, N. A. Spatial preposition use in indoor scene descriptions. *9th International Conference on Geographic Information Science*. Montreal, Quebec. September, 2016.

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Doore, S.A., Fried, A., and Horton, K. From the bottom and the top: Changing gendered universities. *112th Annual Meeting of the American Political Science Association. Philadelphia, PA. September 1-4, 2016.*

Doore, S.A., Beard, K. and Giudice, N. A room with a view: the role of spatial prepositions in indoor scene descriptions. *Spatial Cognition 2016*, Philadelphia, PA. August, 2016.

Doore, S. Spatial prepositions for improved scene descriptions. *10th International Conference on Spatial Information Theory*, *COSIT 2015*, Santa Fe, New Mexico. October, 2015.

Bilen-Green, C., Carpenter, J. P., Doore, S., Green, R. A., Horton, K. J., Jellison, K. L., Latimer, S. M., Levine, M. J., and O'Neal, D. P., Implementation of advocates and allies programs to support and promote gender equity in academia. 2015 *American Society for Engineering Education Annual Conference and Exposition*, *(ASEE 2015)* Seattle, Washington. June, 2015.

Doore, S., Mason, C., and Beard, K. A conceptual model for representing student mobility histories. *Association of American Geographers 2013 Annual Meeting, (AAG 2013)*. Los Angeles, CA. April, 2013.

Doore, S., Eaton, C, Wittier, J., Smitheran, P, and Massey, D. Real-Time Monitoring of Formaldehyde Concentrations in the Built Environment. *International Society of Environmental Epidemiology (ISEE 2012)*. Barcelona, Spain. September, 2011.

Doore, S., Beard, K. and Bult, C. Zooming in: A closer look at cancer in Maine*, URISA Conference for GIS in Public Health*, Atlanta, GA, June, 2011.

Doore, S., Beard, K. and Bult, C. An ontology-based personal exposure history. *Association for Computer Machinery International Health Informatics Symposium (ACM IHI 2010).* Arlington, VA. November, 2010.

Doore, S., Chernosky, M., Hedefine, E., Arsenault, J., Godsoe, S., Holden, C., Vetelino, J. University of Maine GK-12 Sensors! Program Benefits a Local Community. *38th ASEE/IEEE Frontiers in Education Conference (FIE 2008).*Saratoga, NY. October, 2008.

Honors & Recognition

Michael J. Eckardt Dissertation Fellowship	2016-2017
Grace Hopper Celebration Scholar, Anita Borg Institute	2016
Conference on Spatial Information Theory Conference Scholarship	2015
Vespucci Summer Institute Scholarship	2013
NSF IGERT Trainee-Sensor Science, Engineering and Informatics	2010-2012
NSF GK-12 Sensors Fellow, GIS and Spatial Analysis	2007-2010
University of Maine Research Symposium Awards	
"*A room with a view: designing natural language interface structures for indoor scene descriptions* " Best presentation-Physical Sciences	2016
"*Non-promotional student mobility in Maine*" Best poster-Social Sciences	2013
"*Real-Time Formaldehyde Monitoring System*" Research Innovation award	2011
"*Modeling a Personal Exposure History*" Best poster-Engineering	2009
Valedictorian, Summa Cum Laude, University of Maine	1999

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International Research Experience

Vespucci Summer Institute. Process Ontologies, Fiesole, Italy 2011
Vespucci Summer Institute. Spatial Micro-simulation Methods, Fiesole, Italy 2013

Service

ACM-W Student Chapter President, School of Computing and Information Science, 2016
Wrote successful Google.org proposal through NCWIT to launch ACM-W student chapter at the University of Maine for AY 2016-17.

STEM K-12 Workshop Facilitator, College of Engineering, 2007-2013 Designed workshops with a focus on education/career opportunities for girls in spatial information science and engineering and computer science for campus STEM events.

Academic and Professional Societies

Phi Beta Kappa, Phi Kappa Phi, Society of Women Engineers, Association for Computing Machinery-Women, American Association of Geographers.

References

Dr. Kate Beard-Tisdale, Professor of Spatial Informatics, School of Computing and Information Science, University of Maine, Orono, ME (207) 581-2147
kate.beardtiz@gmail.com

Dr. Max Egenhofer, Professor of Spatial Informatics and Director of the School of Computing and Information Science, University of Maine, Orono ME (207) 581-2114
max@spatial.maine.edu

Dr. Nicholas Giudice, Associate Professor of Spatial Informatics, School of Computing and Information Science, University of Maine, Orono, ME (207) 581-2187
nicholas.giudice@maine.edu