

JAMIKA D. BURGE
The Pennsylvania State University, University Park
College of Information Sciences and Technology
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Postdoctoral Research Scholar, Current

The Pennsylvania State University (Penn State), State College, PA

Community Informatics Postdoc.

Advisor: John M. Carroll, PhD

PhD, Computer Science, 2007

Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA

Dissertation: My dissertation research focuses on the communication of emotion (under high-stakes situations) across various communication media: face-to-face, telephone, and instant messaging.

Advisor: Deborah Tatar, PhD.

MS, Computer Science, 1999

North Carolina A&T State University, Greensboro, NC

Thesis: Produced comprehensive specifications for uniformly modeling societies of human and non-human Agents using Epistemic and Deontic Logic.

Advisor: Albert C. Esterline, PhD.

BS, Computer Science, 1998

Fisk University, Nashville, TN

Senior Project: Programmed databases using MS Access to manipulate client database for an insurance subrogation company, including developing simple SQL queries.

Advisor: Horace N. Mann, III, PhD.

PROFESSIONAL EXPERIENCE

Virginia Tech
Blacksburg, VA

Graduate TA
Fall 2006, 2003-2004, Fall 2002

Computer-Supported Cooperative Work

Professionalism in Computing

Introduction to Problem Solving and Computing

- Assisted professors in developing, grading, presenting course materials
- Facilitated course discussions in seminar-style settings
- Solely responsible for student assignments and grades for a CS writing-intensive course (*Professionalism in Computing*)
- Studied how computer users (from youth to elderly) learn to program, using a visual programming language; studied how they interacted with each other

**Almaden Research Center (IBM)
San Jose, CA**

***Research Intern
Summer 2005***

- Gathered, researched, documented the requirements for transforming physical board game into an online training simulation for project managers
- Developed thorough functional specifications and two (2) functional prototypes detailing the interactive components of this collaborative training system
- Supervised professional development of initial phase of full-implementation
- Conducted interviews that explored technology use in the context of workplace conflict and resolution
- Developed and conducted user studies that explored and captured users' techniques for resolving conflict using various communicative technology (email, IM, telephone)

**Spelman College
Atlanta, GA**

***Instructor
Fall 2000-Summer 2002***

*Software Engineering
Artificial Intelligence*

*Computer Architecture and Design
Operating Systems*

Foundations of Computer Science

- Extensively prepared, lectured, and graded all course materials
- Facilitated and led course discussion in seminar-style settings
- Supervised students in undergraduate research projects (Three students had their work accepted at international conferences.)

**T. J. Watson Research Laboratory (IBM)
Hawthorne, NY**

***Research Intern
Summer 2000***

- Researched possibilities of providing and capturing company information, via an Intranet system, that employees would find useful
- Developed storyboards for this system

**North Carolina A&T State University
Greensboro, NC**

***Instructor, GRA
Spring 2000, Fall 1998-Fall 1999***

Software Engineering

Operating Systems

- Extensively prepared, lectured, and graded all course materials
- Facilitated and led course discussion in seminar-style settings
- Researched how systems could be modeled to foster collaboration of human and non-human agent systems
- Infused deontic and epistemic logics into a framework to produce sound specifications that uniformly modeled human and non-human agents (MAMP framework)

SELECTED PAPERS AND PUBLICATIONS

Burge, Jamika D. and Deborah Tatar. Emotionally-Charged Communication: Dyads and Media Use. Journal article (In progress).

Burge, Jamika D. and Deborah Tatar. *Affect and Dyads: Conflict Across Different Technological Media*. Book Chapter (In progress).

Burge, Jamika D. and Deborah Tatar. *Communications Media and Dyadic Conflict* (poster presentation). Society for Text and Discourse, Minneapolis, Minnesota (July 2006).

Burge, Jamika D., and Suarez, Tiki L., *Preliminary Analysis of Factors Affecting Women and African Americans in the Computing Sciences*. Proceedings of the 2005 conference on Diversity in computing, Albuquerque, New Mexico (October 2005).

Tatar, Deborah G. and Burge, Jamika D. *Pragmatics of Emotional Computing: Emotion in Mediated Communication*. Presented at *Human Computer Interaction Consortium*, Fraser, Colorado (February 2005).

Burge, Jamika D. and Esterline, Albert C. *Using Modal Logics to Model Societies of Agents*. Proceedings of the 5th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2001) and the 7th International Conference on Information Systems Analysis and Synthesis (ISAS 2001).

Burge, Jamika D. and Esterline, Albert C. *Uniform Modeling of Agents Using Modal Logics*. Proceedings of the 2000 IEEE Southeast Conference, Nashville, TN (April 2000).

Burge, Jamika D. and Esterline, Albert C. *Uniform Modeling of Human and Artificial Agents Using Epistemic and Deontic Logic*. Proceedings of the World Automation Congress, 2000, Maui, Hawaii (June 2000).

Burge, Jamika D. *Uniform Modeling of Societies of Human and Non-human Agents Using Epistemic and Deontic Logic*, MS Thesis, Dept. of Computer Science, NCA&TSU, 1999.

Toinette Rorie, Esterline, Albert C., and Burge, Jamika D. *Formal Modeling of Multi-agent Systems: An Application of the Pi-Calculus*. Proceedings of ACE-PURSUE Student Conference in Advances in Research and Education in Science, Math, and Engineering, Vol. 2, 1999.

PROFESSIONAL DISTINCTIONS AND PRESENTATIONS

Moderator, “The PhD Job Search” Panel, African American Researchers in Computer Science (AARCS), Auburn University, Auburn, AL (July 2007).

Invited Talk, “Staking a Claim: Broadening the Landscape of Accomplishment”, The Institute for Student Development, Winston Salem State University, Winston Salem, NC (February 2007).

Invited Talk, “An Investigation of Interpersonal Communications across Different Media”, IBM, Almaden Research Center, San Jose, CA (December 2006).

Invited Talk, “Applying Interpersonal Theory and Psycholinguistics in Understanding Technology-Mediated Exchange”, UNCC Department of Software and Engineering Systems, Charlotte, NC (November 2005).

Panel Chair/Organizer, “Making the Journey of Graduate School Your Own: Success at Your Own Risk”, Diversity In Computing Conference, Albuquerque, NM (October 2005).

President, Graduate Council for the Computer Science Department at Virginia Tech, 2004-2006.

Moderator, Graduate School Panel, The Association of Departments of Computer/Information Sciences and Engineering at Minority Institutions (ADMI) (May 2002 & 2003).

Panelist, Grace Hopper Celebration 2002, *The “Culture” of Graduate School*. Vancouver, British Columbia (October 2002).

Referee, SIGCSE: ACM International Student Research Competition, Northern Kentucky (February 2002).

Session Co-Chair: Formal Modeling of Agents, 5th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2001) and the 7th International Conference on Information Systems Analysis and Synthesis (ISAS 2001), Orlando, FL (July 2001).

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery (ACM); Special Interest Groups: Computer Science Education (SIG-CSE), Computer-Human Interaction (SIG-CHI)

Upsilon Pi Epsilon (UPE), National Computer Science Honor Society

Beta Kappa Chi (BKX), National Scientific Honor Society

Institute for African American E-Culture (iAAEC)

PROFESSIONAL SERVICE AND DEVELOPMENT

Referee/Judge, Spelman College Computer Science Olympiad, Spelman College, Atlanta, GA (2007)

Reviewer, CHI 2007, San Jose, CA (2007)

Attendee, Transforming the Professoriate Conference, Virginia Tech, July 20-22nd, 2006. (Acceptance rate: ~18%)

Engineering/Computer Science Graduate Student Recruiting Weekend, *Panelist* for Graduate Student Dialogue Session (2005, 2006)

Virginia Tech Computer Science Graduate Student Council, *President* (2004-2005) and
Graduate Program Committee Representative (2004-2005)

AWARDS & HONORS

Pratt Engineering Scholar (Fall 2006, Spring 2007)

IBM PhD Fellow & Fellowship Award (2005-2006)

Graduate Research Assistant, Virginia Tech, 2003, 2004-2005

Graduate Teaching Assistant, Virginia Tech, 2002, 2003-2004

First Place Presentation Award, Association of Departments of Computer/Information
 Sciences and Engineering at Minority Institutions (ADMI) Conference, 2000

Third Place Research Presentation Award, ACM Mid-Southeast Conference, 2000

Engineering Scholarship Recipient, North Carolina A&T State University, 1998-1999

Graduate Research Assistant, North Carolina A&T State University, 1998-1999

Who's Who Among American Colleges and Universities, 1997-1998

Leota M. Dunn Education Scholarship Recipient, Fisk University, 1997

GTE/UNCF Summer Science Intern and Fellow, 1996

Full Tuition Scholarship for Prior Academic Achievement, Fisk University, 1994-1998

Magna Cum Laude Graduate, Fisk University

POPULAR PRESS

New York Times, 23 August 2005, <http://people.cs.vt.edu/~jaburge/nyTimes.pdf>

OTHER SERVICE ACTIVITIES

Alpha Kappa Alpha Sorority, Inc.,
International Community Service Organization

After-School Tutoring Program, Blacksburg, VA and Christiansburg, VA area students

National Family Volunteer Day, Community Service Program promoting family and
 community development
