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College of Engineering
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CONTACT INFORMATION

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PROFESSIONAL PREPARATION

Ph.D., Computer Science, Auburn University, Auburn, AL
M.C.S.E, Computer Science and Engineering, Auburn University, Auburn, AL
B.S., Computer Science, Jackson State University, Jackson, MS

PROFESSIONAL EXPERIENCE

2003 - present	Assistant Professor Computer Science Department, Prairie View A&M University
2006-present	Graduate Program Coordinator Computer Science Department, Prairie View A&M University
05/2007 – 09/2007	Program Coordinator
01/2006 - 09/2006	STEM Prep Institute: Summer Enrichment Camp Prairie View A&M University
Summer 2002	Pre-Professional Engineer Next Generation Web Interfaces Division IBM T.J. Watson Research Center, Yorktown Heights, NY
Summers 1996 - 1999	Computer Scientist National Security Agency, Fort Meade, MD

PUBLICATIONS & PRESENTATIONS

Book Chapter

Frizell, S. & Hubscher, R. (2008). Using Design Patterns to Support E-learning Design. To appear in L. Lockyer, S. Bennett, S. Agostinho, & B. Harper (Eds), *Handbook of Research on Learning Design and Learning Objects: Issues, Applications and Technologies*. IGI Global, Information Science Reference.

Journal Articles

Nave, F., Cui, S., Obiomon, P., Frizell, S. & Perkins, J. (2008). Charting the Course: The Impact and Implications of the Mentoring Experiences of Female Faculty in the College of Engineering at a HBCU. To appear in *Advancing Women and the Underrepresented in the Academy, Faculty Resource Network* (online symposia proceedings).

Refereed Conference Proceedings

Frizell, S. & Nave, F. (2008). A Preliminary Analysis of Factors Affecting the Persistence of African American Females in Engineering Degree Programs. To appear in *Proceedings of 2008 ASEE Annual Conference & Exposition*. American Society For Engineering Education. Pittsburgh, PA.

Frizell, S., & Nave, F. (2008). Work in Progress – Reexamining the Problem of Engineering

Persistence of African-American Students. To appear in *Proceedings of 38th ASEE/IEEE Frontiers in Education Conference*. Saratoga Springs, NY.

Frizell, S. (2006). Evaluating the Usefulness of Design Patterns in Supporting Novice Course Designers: First Experiences. In T. Reeves & S. Yamashita (Eds.), *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2006* (pp. 1193-1197). Chesapeake, VA: AACE.

Nave, F., Frizell, S., Obiomon, P., Cui, S., & Perkins, J. (2006). Prairie View A&M University: Assessing the Impact of the STEM-Enrichment Program on Women of Color. In B. Bogue & R. Marra (Eds.), *Proceedings of 2006 Women in Engineering Programs & Advocates Network (WEPAN) Conference*. Pittsburgh, PA.

Frizell, S. & Hubscher, R. (2002). Supporting the Application of Design Patterns in Web-Course Design. In P. Kommers & G. Richards (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2002* (pp. 544-549). Denver, Colorado, AACE.

Frizell, S. & Hubscher, R. (2002). Aligning Theory and Web-based Instructional Design Practice with Design Patterns. In G. Richards (Ed.), *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2002* (pp. 298-304). Montreal, Canada, AACE.

Presentations

Cui, S., Frizell, S., Obiomon, P., Perkins, J., & Nave, F. (2007). Female Faculty Mentoring: A Case Study of the Experiences of Female Faculty in the College of Engineering at Prairie View A&M University. Panel Presentation at the *2007 Faculty Resource Network National Symposium*, Charlotte, NC.

Torbay, R*., Doucet, T., & Frizell, S. (2005). Three Dimensional Rocket Data Visualization. Poster Presentation at the 3rd *TAMUS Pathways Research Symposium*, Kingsville, TX.

Frizell, S. (2002). *A Pattern-based Approach to Supporting Web-based Instructional Design*. Presentation, IBM T.J. Watson Research Center, Hawthorne, NY.

Frizell, S. (2002). *Tool Support for Design Pattern Usage during Software Development*. Poster Presentation, IBM T.J. Watson Research Center, Hawthorne, NY.

Frizell, S. (2002). PatternEdge: Tool Support for Web-Course Design Patterns. Poster Presentation at the *8th Annual Conference for African-American Researchers in the Mathematical Sciences (CAARMS8)*, Princeton University.

Frizell, S. (2000). A Pattern-Based Design Methodology for Web-Based Instruction. Poster Presentation at the *6th Annual Conference for African-American Researchers in the Mathematical Sciences (CAARMS6)*, Morgan State University.

Technical Reports

Frizell, S. (1999). *Computer-Based Training*. National Security Agency Report.

Frizell, S. (1998). *Information Visualization with VRML and the Hyperbolic Tree Java Toolkit*. National Security Agency Report.

FUNDED PROJECTS & PROPOSALS

1. Nave, F., Bonner, F., Lewis, C., Frizell, S., & Alfred, M. (2007). *Education Research Project: An Empirical Investigation of the Success Factors Impacting African American Students in Engineering and Technology at Historically Black Universities*. National Science Foundation, **\$1,007,146.00, 09/01/07 - 08/31/10**.
2. Nave, F., & Frizell, S. (2007). *Sisters Speak™: Professional Development Program for Women of Color in the College of Engineering at Prairie View A&M University*. Society of Women Engineers, **\$3,285, 09/01/07 - 05/31/08**.
3. Frizell, S. & Nave, F. (2006). *The Identification of Factors Affecting the Retention and Attrition of African-American Female Students in Computer Science and Engineering*. Engineering Information Foundation, **\$24,032, 01/01/07 - 12/31/07**.
4. Nave, F. & Frizell, S. (2005). *Empowered to Lead: Increasing the Leadership Skills of Prairie View A&M University Society of Women Engineers*. ExxonMobil, **\$4,500, 01/01/06 - 05/31/07**.

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5. Frizell, S. (2005). TEXAS A&M – Boeing Interdisciplinary Rocket Design Project, Faculty Advisor, **\$2000**.

HONORS and AWARDS

- Service Award, PVAMU STEM Prep Institute, 2007
- Service Award, PVAMU STEM Prep Institute, 2006
- Conference Travel Award, African-American Researchers in Computing Sciences (AARCS), 2006
- Conference Travel Award, Coalition to Diversify Computing, 2002
- Most Outstanding Graduate Student in College of Engineering, Auburn University, 2002
- National Physical Science Consortium (NPSC) Graduate Fellowship Recipient, 1996-2002
- National Science Foundation (NSF) Graduate Fellowship Award Recipient, 1996 (award declined)
- GEM MS Engineering Fellowship Recipient, 1996 (award declined)

STUDENT SUPERVISION

Masters Students

- Wei Qin. (2005). *RFID-based Automated Industrial Laundry Process*. M.S., Computer Information Systems, August 2005.
- Mohammed Mondle. (2005). *CourseIDC: A Course Authoring Tool with Instructional Design Content*, M.S., Computer Science, May 2005.

Thesis Committee Member

- Zhuting Du. (2006). *Hybrid Data Mining Techniques for Business Applications*, M.S. Computer Information Systems, August 2006.
- Zhixiang Lu. (2006). *Mapping Relational Schema to XML Schema with the Consideration of Relational Dependency Constraints*, M.S. Computer Information Systems, August 2006.
- Guoquan Sun. (2006). *Service-Oriented Architecture in E-Business Applications Integration*, M.S. Computer Information Systems, August 2006.
- Shaila A. Jyoti. (2005). *Improving Ant-Based Routing Algorithms in Telecommunication Networks*, M.S. Computer Science, May 2005.
- Jing Lai. (2004). *A Clique Algorithm for Motif Finding Problem*, M.S. Computer Science, May 2004.

Undergraduate Students (Senior Design Projects)

- Michael Davis. (2006). *Sentinel Project Management Tool*, May 2006
- Crystal Jordan and Sabrina Mathews. (2006). *Simulation of the Trajectory of Satellite Payloads*, Texas A&M University - Boeing Interdisciplinary Rocket Design Project, May 2006
- Rami Torbay and Theresa Doucet. (2005). *Three Dimensional Rocket Data Visualization*, Texas A&M University - Boeing Interdisciplinary Rocket Design Project, May 2005
- Ira Gordon. (2004). *Student Opinion Survey System*, May 2004
- Pamella Lewis and Penny Head. (2004). *CS Advisement Tool*, May 2004
- Shaylon Williams. (2003). *Interfacing Databases through the Web: Demonstrated through a Survey Generation System*, May 2003

PROFESSIONAL MEMBERSHIPS

- Association for Computing Machinery
- Association for the Advancement of Computing in Education
- Society of Women Engineers