

# Krystle D. Lemon

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## EDUCATION

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- May 2008      **MISSISSIPPI STATE UNIVERSITY**      Mississippi State, MS  
*Candidate for Doctorate of Philosophy, Software Engineering/Cognitive Science*
- Research: Mental Models of Software Engineering
  - Research interests: Human Factors in Software Engineering, Cognitive Psychology Applied to Software Engineering, Empirical Software Engineering
  - Advisor: Dr. Edward Allen
- August 2005      **MISSISSIPPI STATE UNIVERSITY**      Mississippi State, MS  
*Master of Science, Computer Science*
- Project Title: Inspecting Software Architecture: An Early Study
  - Advisor: Dr. Jeffrey Carver
- May 2003      **TOUGALOO COLLEGE**      Tougaloo, MS  
*Bachelor of Science (magna cum laude), Computer Science*

## RESEARCH EXPERIENCE

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- 2005-Present      **MISSISSIPPI STATE UNIVERSITY**      Mississippi State, MS  
*Graduate Research Assistant, Department of Computer Science Engineering*
- Responsible for designing, running, and analyzing human subject experiments to uncover errors in software diagram comprehension made by software engineers.
  - Evaluate the current state-of-art in software diagram comprehension to pioneer new techniques for software engineers
  - Advisor: Dr. Edward Allen
- Summer 2004      **UNIVERSITY OF CALIFORNIA, SAN DIEGO**      La Jolla, CA  
*Summer Intern, Department of Computer Science Engineering*
- Integrated security aspects into an existing Architecture Description Language for the TSEC system that was formulated by Dr. Ingolf Krueger and his research group
  - Evaluated state-of-art in software architecture practices and architecture description languages
  - Advisor: Dr. Ingolf Krueger
- Summer 2002      **UNIVERSITY OF MICHIGAN**      Ann Arbor, MI  
*Summer Intern, Department of Industrial and Operations Engineering*
- Helped propose a new method of solving the tolerance stack-up model using vectorial tolerancing and the stream-of-variation methodology.
  - Studied previous methods of tolerance synthesis and their shortcomings
  - Advisor: Dr. Qiang Huang

## TEACHING EXPERIENCE

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- 2003-2004      **MISSISSIPPI STATE UNIVERSITY**      Mississippi State, MS  
*Teaching Assistant, Department of Computer Science Engineering*
- Assisted students in class and out of class with programming assignments
  - Planned weekly programming assignments for students in the Intro to Computer Programming course (CSE 1284) and provided supplemental resources to aid students with programming
  - Maintained the class website for the course

## **FELLOWSHIPS and HONORS**

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- Recipient, Southern Regional Education Board Fellowship
- Member, Upsilon Pi Epsilon Information and Computing Honor Society
- Scholar, Alliance for Graduate Education in Mississippi

## **PUBLICATIONS**

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- Lemon, K., Allen, E., Carver, J., and Bradshaw, G. "Gestalt Principles Applied to Software Engineering Diagrams: A Preliminary Study." To appear in the *Proceedings of the 2006 International Symposium on Empirical Software Engineering (Short Papers Track)*. Sept. 21-22, 2006. Rio de Janeiro, Brazil.
- Carver, J. and Lemon, K.. "Architecture Reading Techniques: A Feasibility Study." *Proceedings of 2005 International Symposium on Empirical Software Engineering (Late Breaking Research Track)*. Nov. 17-18, 2005. Noosa Heads, Australia. p. 17-20.

## **PROFESSIONAL AFFILIATIONS**

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- Member, Association of Computing Machinery (ACM)
- Member, National Society of Black Engineers (NSBE)

## **COMPUTER SKILLS**

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- Knowledge of C, C++, Microsoft Visual Basic programming languages, Macromedia Dreamweaver and Authorware, SPSS, LaTeX, Microsoft Office Suite (Word, Excel, Access, PowerPoint), Unix and Windows operating system