

Charla Michelle Lindley

Arizona State University
Center for Adaptive Neural Systems
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Education

Graduate: Arizona State University
PhD program in the Harrington Department of Bioengineering
Focus: Prosthetics Research

Undergraduate: Mississippi State University
BS in Biological Engineering, Biomedical Engineering Concentration, May 2008
Summa Cum Laude, 4.00 GPA

Papers and Presentations

Charla Lindley, B. Soni, and D. Thompson, "Effects of Inlet Velocity Profile on Flows in Multigenerational Bronchial Tubes," Seventh Mississippi State - UAB Conference on Differential Equations & Computational Simulations, November 1-3, 2007

B. Soni, C. Lindley, and D. Thompson, "Effects of Non-planarity on Secondary Flows in the Small Bronchial Tubes," *Journal of the Mississippi Academy of Sciences (71st Annual Meeting of the Mississippi Academy of Sciences)*, Vol 52, No 1, 2007, Mississippi State, MS, February 22-23, 2007.

B. J. Soni, C. Lindley, and D. Thompson, "The Combined Effects of Nonplanarity and Asymmetry on Primary and Secondary Flows in the Small Bronchial Tubes," *International Journal for Numerical Methods in Fluids*, 2008, doi: 10.1002/flid.1802

Research Interests

Prosthetics, Biomechanics, Computer Modeling
Developing prosthetic systems for children and for use in low technology environments

Charla Michelle Lindley

Honors and Awards

Graduate:

Science Foundation Arizona Fellowship

Undergraduate:

Mississippi State University Honors Program

Bagley College of Engineering Hall of Fame

Mississippi Engineering Society Outstanding Senior Engineering Student 2008

Outstanding Undergraduate Research Award 2008

Tau Beta Pi

Phi Kappa Phi

High School:

Valedictorian, 4.0 GPA

Lettered four years in Cross Country, Basketball, and Track; All-State in Cross Country

Work Experience

Fall 2006-May 2008: Engineering Research Assistant, High Performance Computing Collaboratory, Computational Simulation and Design center, modeling of bronchial tubes

Spring 2008: Lab Instructor, Biomaterials Lab, Mississippi State University

Summer 2007, 2008: Children's director for Shiloh Camp Meeting Revival

Summer 2005, 2006: Counselor, Camp Wesley Pines, Gallman, MS

Fall 2003-Summer 2004: Receptionist, Primary Care Group, New Albany, MS

2001-2002: Chemistry and algebra tutor

Service

Organized and led a team of 13 Mississippi State University students for a two-month mission trip to Ghana. We worked with children at orphanages and schools, built churches, and assisted with free medical clinics: Summer 2008

Science Enhancement Project in Starkville Elementary Schools: 2007

Bell ringer for Salvation Army: 2007

Starkville First United Methodist Church (Youth Assistant): 2005-2006

Palmer Home for Children Volunteer: 2004-2005

American Cancer Society Relay for Life: 2001, Team organizer, 2002, 2003, 2004

Camp Son Shine (day camp for underprivileged children): Counselor, 1998-2004

Mountain TOP (summer mission work camp): 2003, 2004

Habitat for Humanity Youth Work Day (organized): 2003