

## Cecille Pemberton Labuda

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Oxford, MS 38655

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Current Occupation: Assistant Professor of Physics and Astronomy

### Education

**University of Mississippi**, University, MS 38677

- Ph.D., Physics, May 2008.  
Dissertation Title: Enhanced High Intensity Focused Ultrasound Heat Deposition for More Efficacious Hemostasis.  
Research advisor: Dr. Charles C. Church
- M.S., Physics, December 2003.  
Thesis Title: Wave Propagation and Causality.  
Research advisor: Dr. Luca Bombelli
- B.S. Physics, May 1999.
- B.A. Mathematics, May 1999.

B.S., B.A. Magna Cum Laude, Phi Kappa Phi

### Research and Training

- Ultrasonics Research Group: National Center for Physics Acoustics, University of Mississippi, May 2008 – Present
- Teaching Assistant – Introductory Physics Laboratory: Department of Physics and Astronomy, University of Mississippi, January 2008 – May 2008.
- Research Assistant: Ultrasonics Research Group, National Center for Physical Acoustics, University of Mississippi, January 2004 – May 2008.
- Teaching Assistant – Introductory Astronomy Laboratory: Department of Physics and Astronomy, University of Mississippi, August 1999 – May 2004.
- Undergraduate Student Research: Educational Physics Research Group, Department of Physics and Astronomy, University of Mississippi, August 1996 – May 1998. (Advisor: Dr. Bruce Denardo)

### Publications and Presentations

- Labuda C, Church CC. Augmentation of HIFU-Induced Heating with Fibers in a Phantom. *Ultrasound Med Biol*, 37(3): 2011.
- Labuda C, Church CC. Enhanced High Intensity Focused Ultrasound Lesion Formation using Embedded Fibers. *J Acoust Soc Am*, 122(5): 2007.
- Labuda C, Church CC. HIFU Induced Temperature Variation in a Flow-through Tissue Phantom. *Mid-South Area Engineering and Sciences Conference*, May 17-18, 2007.
- Miller M, Church CC, Labuda C, Mazza S and Raymond J. Biological and Environmental Factors Affecting Ultrasound-Induced Hemolysis In Vitro: 5. Temperature. *Ultrasound Med Biol*, 32(6): 2006.
- Labuda C, Gui L, Yang X. Echo-PIV Imaging of HIFU Induced Acoustic Streaming. *2nd Annual Memphis Bioimaging Symposium Program and Proceedings*, November 3-4, 2005. (Poster presentation)
- Labuda C, Raymond J and Church CC. Reciprocity Calibration of Hydrophones in the Megahertz Frequency Range. *Proceedings of the 2004 IEEE Ultrasonic Symposium*, 3:1595-1598, August 2004.
- Denardo B, Pemberton C, Bhatt K. Raising a Circular Body Over a Step. *The Physics Teacher*, 35(5): 1997.

## **Awards and Honors**

- AAUW Fellow 2009-2010
- Best student paper 2<sup>nd</sup> prize, HIFU Induced Temperature Variation in a Flow-through Tissue Phantom, *Mid-South Area Engineering and Sciences Conference*, May 17-18, 2007

## **Employment Experience**

Assistant Professor of Physics and Astronomy  
Department of Physics and Astronomy  
University of Mississippi, University MS (08/2009 – Present)

Visiting Assistant Professor of Physics and Astronomy  
Department of Physics and Astronomy  
University of Mississippi, University MS (08/2008 – 08/2009)

Teacher - Physics  
St. Joseph Secondary School, St. Joseph, DOMINICA (09/1994 – 12/1994)

Teacher – Physics and Mathematics  
The Convent High School, Roseau, DOMINICA (09/1992 – 03/1994)

## **Professional Affiliations**

Acoustical Society of America, IEEE, AAUW, Women in Acoustics, Women in Engineering

## **Interests**

Photography, tennis, piano, finance

## **References**

By request.