Mohit Ganguly

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Education

- PhD , Biomedical Engineering — Aug '14-Current

Vanderbilt University, Nashville, TN

Advisor: E. Duco Jansen, PhD

- Master of Science, Biomedical Engineering — May ’14

Florida Institute of Technology, Melbourne, FL

Advisor: Kunal Mitra, PhD

- Bachelor of Technology, Biotechnology — May ’12

Indian Institute of Technology, Guwahati, INDIA

Advisor: Subhas C Mishra, PhD

Publications

Journal Articles

1. *Ganguly M*, Mitra K. Analysis of Thermal and Mechanical Effects of Pulsed Laser Irradiation on Tissues (In press)
2. *Ganguly M*, Miller S, Mitra K. Model Development and Experimental Validation for Analyzing Initial Transients of Irradiation of Tissues during Thermal Therapy using Short Pulse Lasers, Lasers Surg. Med. 47:711-722, 2015.

Book Chapters

1. *Ganguly M*, O’Flaherty RW, Mitra K, Sajjadi AY. Tissue Response to Short Pulse Laser Irradiation. Heat and Fluid Flow in Biological Processes. Elsevier Publishing, 2015

Conference Proceedings

1. *Ganguly, M*, et al., Modeling the effects of elevated temperatures on action potential propagation in unmyelinated axons. SPIE BiOS. International Society for Optics and Photonics, 2016.
2. *Ganguly M*. Mitra K. , Analysis of Thermal and Mechanical Effects of Pulsed Laser Irradiation on Tissues, CHT-15 Conference, New Brunswick, NJ, May 2015
3. *Ganguly M.*, Modeling of Acoustic Detection of Ultrasound Contrast Agents Using COMSOL, Biomedical Optics(OSA), Miami, 2014
4. Mishra SC., Das K., *Ganguly M.*, Goswami P., Thermal Estimation of Properties and Location of Tumor in a 2-D Biological Tissue using Surface Temperature Profile. Ninth International Conference on Flow Dynamics, Sep 2012

Positions and Responsibilities

1. President, VU SPIE Student Chapter 2016-17
2. Coordinator, Biophotonics Center Seminar Series, Fall 2016
3. Vice President (Education), VU Advanced Degree Consulting Club, 2016-17
4. Vanderbilt University International Peer, 2016-17
5. Vice- President, VU SPIE Student Chapter 2015-16
6. Student Representative, Department Undergraduate Program Committee (DUPC), IIT Guwahati, India, 2010-11
7. Core Team Member, Marketing and Finances, Techniche 2010, IIT Guwahati, 2009-10

Honors and Awards

1. SPIE Travel Scholarship 2016
2. Runners-up, Tech Venture Challenge, Apr 2016
3. Officer Travel Grant, SPIE Optics and Photonics, San Diego, 2016
4. Newport Research Excellence Award, SPIE Photonics West , San Francisco, 2016
5. Fellowship and Travel Grant, National Short Course in Computational Biophotonics, University of California at Irvine, Aug 2015
6. American Society of Laser Medicine and Surgery (ASLMS) Student Research Grant, 2015-16
7. American Society of Laser Medicine and Surgery (ASLMS) Conference Travel Grant, Phoenix, AZ, April 2014
8. Outstanding Graduate Student Award, Florida Institute of Technology, April 2014
9. Awarded the Nanocore Summer Research Fellowship at National University of Singapore, May 2011

Computational Skills: MATLAB, COMSOL, PYTHON, NEURON, C