

Shwetana Sunkari

COO - Sonostics, Inc.

Plot 60, NE, Seethammadhara,
Visakhapatnam, AP - 530013

ssunkari@binghamton.edu
+91-8142788009

EDUCATION

**State University of New York at Binghamton,
Watson School of Engineering and Applied Science**
Master of Science in Biomedical Engineering

August 2012
Percentage: 95%

Andhra University, College of Engineering (A)
Bachelor of Engineering in Electrical and Electronics Engineering
First class with Distinction
EAMCET Rank- 415

May 2010
Percentage: 82%

Sri Chaitanya Junior College
Intermediate Education – State Board

March 2006
Percentage: 98%

AREAS OF EXPERTISE

- **Clinical Study Design:**
Heat Balance in Adult Women – Changes in body composition based on exposure to cold environments
Organized a successful observational clinical study, and assimilated data to validate the role of thermal comfort and heat balance as a salient factor in weight gain among sedentary adult women set in a typical office environment. Conducted analysis of clinical data using OriginLab, Mathematica and SPSS (Linear Regression and Correlations).
- **Meta – Analysis of Big Data**
Longitudinal Trends of Growth in Children and Adolescents
Conducted robust epidemiological analyses utilizing data sets spanning over 150 years to establish correlations in growth trends of female children. Employed regression analysis to attribute these changes to diet, lifestyle patterns and other activities.
- **Entrepreneurial ventures/Translational Research**
Involved in a starting up a technological venture in Binghamton, NY spun off of research conducted in a translational research laboratory (CSERC) at the University. Also, involved in many research projects focusing on affordable healthcare and innovative solutions to existing healthcare problems.
- **Operations Management and Customer Service**
Managed daily operations of the Sonostics clinic, including scheduling, billing (via QuickBooks). Experienced with operation of a NICOM (Non-invasive Cardiac Output Monitor) for assessing body fluid distributions. In charge of consumer satisfaction, and marketing technology to practitioners for strategic partnerships.

WORK EXPERIENCE

Sonostics, Inc.

Binghamton, NY

Chief of Operations, Customer relations and Marketing

May 2013 – Present

- Working with clients on a one-on-one basis to evaluate imbalance around the knee muscles using vibromyography and propose relevant rehabilitation techniques. Responsible for data analysis and communicating results, with options personalized to the lifestyle of the client. Includes operation/troubleshooting of balance testing equipment (accelerometer sensors) and custom software.
- Evaluation of imbalance in calf muscles crucial for blood circulation. Monitoring and analyzing blood pressure, stroke volume and cardiac data output from a NICOM.
- Presenting technology in health fairs and to practitioners and physicians leading to the successful marketing of the device.

Shwetana Sunkari

COO - Sonostics, Inc.

Plot 60, NE, Seethammadhara,
Visakhapatnam, AP - 530013

ssunkari@binghamton.edu
+91-8142788009

State University of New York at Binghamton Clinical Science and Engineering Research Center

Graduate Research Assistant

Binghamton, NY

August 2010 – August 2012

- Coordinated and managed clinical studies, from IRB documentation to data analysis and presentation of results.
- Handled large scale data sets (NHES and NHANES-from 1960 - 2008) to extract parameters for longitudinal studies on growth trends of children over the last 150 years. Primarily used R- Project software for the extraction process and regression analysis.

State University of New York at Binghamton, Watson School of Engineering and Applied Science

Teaching Assistant

Binghamton, NY

August 2011 – May 2013

- Assisted in teaching undergraduate level courses, including “Data Acquisition and Analysis”, “Biological Networks”, “Life in Moving Fluids” and “Heat and Mass Transfer”.
- Worked with students to guide them through tough academic situations.
- Responsibilities included grading assignments and tests, conducting work sessions and holding regular office hours.

Center for Autonomous Solar Power, Research Foundation at Albany through State University of New York at Binghamton

Research Aide

Binghamton, NY

August 2010 – August 2011

- Developed a dye- sensitized solar cell with zinc-oxide nanorods as electrodes, grown by chemical deposition method.
- Scanning Electron Microscope: Trained to analyze nano-rod samples using SEM to determine size/alignment and other relevant parameters and confirm correlations of structure to efficiency of the electrode.

SELECTED PAPERS AND PRESENTATIONS

- Dhakal T., Hamasha M., Sunkari S., Ganta L., Vasekar P., Westgate C.; “Fabrication of Cu_2ZnSnS_4 Thin Film Solar Cell Using Chemical Method”, Photovoltaic Specialists Conference (PVSC), 2011 37th IEEE
- Sunkari S., McLeod K., “Heat Balance in Adult Women” – Awaiting acceptance
- Sunkari S., McLeod K., “Comparison of the Weight:Height Relationships of Girl Children in the Past Century” - In Process

SKILLS & INTERESTS

- Statistical Software: Experienced with R-Project, Origin and SPSS in above research, as well as in coursework.
- Computer Skills: Proficient in analysis and representation of data using Microsoft Office applications including Excel, PowerPoint, Word and R-Project.
- Devices/Software: Scanning Electron Microscope, NICOM, accelerometer sensors, Myowave (custom vibromyographic analysis software).
- Clinical Trials: Data acquisition/extraction GCP – ICH guidelines, experimental design, IRB procedures, analyses.
- Client Interaction: Strong interpersonal skills, honed by providing customer support and service at Sonostics
- Quality of Deliverables: Attention to detail and precision in collecting data, ability to adapt and assimilate new software/knowledge quickly and effectively.