

# Biomedical Engineer | Scientist | Neuromodulator | Ph.D.

Ann Arbor, MI | universityofmichigan6@gmail.com

## PROFESSIONAL SUMMARY

- Multifaceted biomedical engineer and neuroscientist with 7+ years of research and clinical experience in the application and optimization of neuromodulation technologies for pain and stroke management.
- Accomplished researcher and innovator with a strong publication record (42 publications) and carrying a unique and unprecedented mix of skillset spanning both invasive and non-invasive neuromodulation fields.
- Creative, adaptive, and self-motivated individual with extensive product and market knowledge, and commercial acumen; leader and relationship builder with excellent organizational, presentation and communication skills; project and resource manager with legal and regulatory awareness.

## WORK EXPERIENCE

### University of Michigan, Ann Arbor, MI, USA

Sep 2016 – Present

- Research investigator specialized in clinical neuromodulation technologies for chronic pain management (e.g., spinal cord stimulation, dorsal root ganglion stimulation), as evidenced by 10+ scientific publications in the field, and an internally-funded grant award (\$85,000) to test the efficacy of a new neuromodulation technology for chronic pain management in a human clinical trial.
- Leader and project manager who facilitated the funding of a large NIH R01 grant award (\$358,139), and the development and completion of several investigator-initiated research projects and proposals.
- Strong relationship builder and collaborator, as demonstrated by the successful establishment of several collaborations with clinical partners at the University of Michigan, major hospitals in Michigan, and private practice centers; regularly liaised with physicians and scientists on new publications, scientific data, and research studies.

### Cleveland Clinic, Cleveland, OH, USA

Mar 2014 – Sep 2016

- Distinguished innovator in the field of clinical rehabilitation and non-invasive brain stimulation approaches for stroke recovery, as evidenced by two landmark first-author publications and 12+ co-author publications. Facilitated the funding of a prestigious American Heart/Stroke Association award (\$300,000) and a large NIH R01 grant award (\$654,998).
- Efficient and confident science communicator adept in clearly communicating complex scientific concepts to diverse audiences, as demonstrated by the successful delivery of several podium talks and presentations at major scientific conferences.
- Mentor and team player with a clear vision to transmit the passion and talent for research to young scientists, as demonstrated by the successful mentoring of two graduate students and two undergraduate students in the lab, and the completion of multiple clinical research studies and projects in the lab.

### Senseonics Incorporated, Germantown, MD, USA

Jun 2012 – Feb 2014

- Demonstrated teamwork and collaboration skills by managing two pilot clinical trials in India (Mumbai, Pune), resulting in the development of transformative glucose monitoring products for diabetic management, and several further international collaborations.

- Demonstrated in-depth product knowledge by providing on-site scientific, technical, and clinical support to physicians, and training and education of field staff. Also provided support and follow-ups in hospitals and clinics.
- Demonstrated legal and regulatory awareness by participating in regulatory submissions, contract approvals, and budget negotiations.

## EDUCATION

- Ph.D., Biomedical Engineering | University of Twente | The Netherlands | January 2013
- M.S., Biomedical Engineering (Distinction/Honors) | RWTH Aachen University | Germany | September 2006
- B.E., Mechanical Engineering (Distinction/Honors) | University of Madras | India | June 2002

## EXPERTISE & SKILLS

- Expertise: Biomedical Engineering | Medical Devices | Healthcare | Electrical Stimulation | Neuromodulation | Neuroscience | Neurology | Pain Management | Stroke Management | Clinical Trials | Clinical Research | Regulatory Affairs | Medical Affairs | Publications
- Technical Skills: Project Management | Resource Management | People Management | Study Design | Protocol Development | Computer Modeling | Research and Analysis | Technical Writing | Technical Support | Technical Training | Software Proficiency
- Clinical Skills: Physical Rehabilitation | Transcranial Magnetic Stimulation | Transcranial Direct Current Stimulation | Quantitative Sensory Testing | Functional Neuroimaging
- Transferable Skills: Product Knowledge | Market Knowledge | Commercial Acumen | Industry Trends | Leadership | Communication | Responsibility | Presentation | Problem Solving | Work Ethic | Flexibility | Teamwork | Collaboration

## AWARDS, AFFILIATIONS & INTERESTS

- Best Oral Presentation Awards
  - 3<sup>rd</sup> Dutch Congress on Biomedical Engineering | Egmond aan Zee | The Netherlands | 2011
  - International Neuromodulation Society 9<sup>th</sup> World Congress | Seoul | South Korea | 2009
- Postdoctoral Travel Award
  - Cleveland Clinic | Cleveland | 2015 | 2016
- Affiliations
  - International Neuromodulation Society (INS)
  - American Society for Neural Rehabilitation (ASNR)
  - Society for Neuroscience (SfN)
  - International Association for the Study of Pain (IASP)
- Cricket and fitness enthusiast