



Mike Averkiou Ph.D.

**Associate Professor, Department of Bioengineering. University of Washington, Seattle
United States**

EDUCATION

- The University of Texas at Austin
Ph.D., Mechanical Engineering, May 1994
Dissertation title: "Experimental investigation of propagation and reflection phenomena in finite amplitude sound beams"
- The University of Texas at Austin
MS, Mechanical Engineering, August 1989
Thesis title: "Reflection of Focused Sound from Curved Rigid Surfaces"
- The University of Texas at Austin
BS, Mechanical Engineering, August 1987

RESEARCH AND TEACHING INTERESTS

Research: Diagnostic ultrasound, nonlinear imaging techniques for tissues and contrast agents, imaging and quantification of tissue and organ perfusion, monitoring of angiogenesis with imaging techniques, image-controlled ultrasound-assisted drug delivery, thermal ablation with high intensity focus ultrasound. Very strong emphasis on clinical and translational research.

Teaching: Medical imaging, diagnostic ultrasound, therapeutic and industrial applications of ultrasound, engineering acoustics, nonlinear acoustics, numerical methods and computational analysis.

PROFESSIONAL EXPERIENCE

- University of Washington, Seattle, USA (January 2015 – present)
Associate Professor, Department of Bioengineering. Establishing research and teaching programs in biomedical imaging and ultrasound-mediated drug delivery. Core faculty member of the Ultrasound-based Washington Molecular Imaging and Therapy Center (uWAMIT).



- University of Cyprus, Nicosia, Cyprus (October 2010 – December 2014)
Associate Professor, Department of Mechanical and Manufacturing Engineering. Established research and teaching programs in biomedical imaging. Research interests: diagnostic and therapeutic applications of ultrasound with emphasis on contrast agents. Director of Biomedical Ultrasound Lab.
- University of Washington, Seattle, Washington (May 2013 – December 2014)
Affiliate Associate Professor, Applied Physics Laboratory, Center for Industrial and Medical Ultrasound. Collaborative clinical research on radiology and oncology.
- Imperial College London, London, UK (August 2011 – 2014)
Visiting Professor, Experimental Medicine, Hammersmith Hospital. Collaborative clinical research on interventional radiology and oncology. Trained physicians on perfusion imaging and quantification methods.
- University of Cyprus, Nicosia, Cyprus (August 2005 – October 2010)
Assistant Professor, Department of Mechanical and Manufacturing Engineering. Established research and teaching programs in biomedical imaging. Research interests: diagnostic and therapeutic applications of ultrasound with emphasis on contrast agents. Director of Biomedical Ultrasound Lab.
- Philips Medical Systems, Bothell, Washington (1999 – 2005)
Corporate Technical Staff, Liver oncology investigations project leader. Feature leader for multiple releases of imaging products (iU22). Ultrasound contrast imaging, flow and new imaging methods. Inventor/co-inventor of over 30 patents in key areas of diagnostic ultrasound, contrast agents, and perfusion quantification.
- ATL Ultrasound, Bothell, Washington (1996 – 1999)
Systems Design Engineer, Nonlinear tissue imaging and ultrasound contrast imaging. Feature leader for multiple releases of imaging products (HDI-5000). Inventor/co-inventor of first key patents of tissue harmonic imaging and ultrasound contrast imaging.
- University of Washington, Seattle, Washington (1996 – 2011)
Adjunct Research Professor, Applied Physics Laboratory, Department of Acoustics and Electromagnetics.
- University of Washington, Seattle, Washington (1994 – 1996)
Postdoctoral Research Scientist, Applied Physics Laboratory, Department of Acoustics and Electromagnetics. Research on extracorporeal shockwave lithotripsy, high intensity focused ultrasound (HIFU).
- Focus Surgery, Inc., Milpitas, California, (April 1994 – September 1995)
Biomedical Ultrasound Consultant, High-intensity focused ultrasound surgery for the removal of Benign Prostatic Hyperplasia (BPH).
- The University of Texas at Austin, Austin, Texas (1987 – 1994)
Graduate Research Assistant, Department of Mechanical Engineering. Performed research for MS and PhD degrees.



WFUMB 2017 TAIPEI

The 16th World Federation for Ultrasound in
Medicine and Biology Congress

- Cyprus National Guard (1981-1983) Second Lieutenant