



SEVDE ETOZ NIEMEIER

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EXPERIENCE

Guven Hospital, Ankara, TURKEY

Intern, July – September 2011

- Assisted and kept records of the clinical device repairs, purchase and maintenance.

Draeger Medical, Ankara, TURKEY

Intern, July – September 2012

- Helped in sales of anesthesia devices

Turkish Ministry of Health, Project Management and Support Unit, Ankara, TURKEY

Team Assistant, June 2013 – February 2014

- Worked on communications between other units of Ministry of Health and Project Management Unit to run Projects in Support of Restructuring the Health Sector in Turkey, World Bank Financed

University of Wisconsin-Madison

Teaching Assistant, September 2017 – December 2017

- BME/Med Phys 535 – Intro to Energy Tissue Interactions.
- This course covered physical interactions between thermal, electromagnetic and acoustic energies and biological tissues with emphasis on therapeutic medical applications.
- Graded homework, quizzes and prepared an assignment.

University of Wisconsin-Madison

Teaching Assistant, January 2018 – May 2018

- BME/Med Phys 530 – Medical Imaging Systems
- This course covered 2D Fourier image representation, sampling, and image filtering in medical imaging. Projection radiography, tomography, magnetic resonance imaging, and ultrasound was reviewed in terms of impulse responses, resolution and design trade-offs.
- Graded all homework, exams, and gave a lecture couple times.

University of Wisconsin-Madison

Teaching Assistant, January 2018 – May 2018

- BME/Med Phys 568 Medical Resonance Imaging

- This course covered physics and techniques in MRI. Topics included: pulse sequences, hardware, imaging techniques, artifacts, clinical applications.
- Graded all homework and exams, and gave a lecture on arterial spin labeling (ASL).

EDUCATION

BS in Biomedical Engineering, Erciyes University, Kayseri, 2013, GPA: 3.12

MS in Biomedical Engineering, University of Wisconsin-Madison, GPA: 3.519

PhD in Biomedical Engineering, in progress (Thesis proposal completed).

AWARDS AND ACKNOWLEDGEMENTS

- In 2014, Turkish Ministry Education's Fellowship to pursue Graduate studies in the US.

PUBLICATIONS

- Etoz, S., & Brace, C. L. (2018). Analysis of microwave ablation antenna optimization techniques. *International Journal of RF and Microwave Computer-Aided Engineering*, 28(3), e21224.
- Etoz, S., & Brace, C. L. (2018). Development of Water Content Dependent Tissue Dielectric Property Models. *IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology*.
- Niemeier, R. C., Etoz, S., Gil, D. A., Skala, M. C., Brace, C. L., & Rogers, J. D. (2018). Quantifying optical properties with visible and near-infrared optical coherence tomography to visualize esophageal microwave ablation zones. *Biomedical optics express*, 9(4), 1648-1663.

CONFERENCE PRESENTATIONS

- Etoz, S., Greisch, W., & Brace, C. L. (2018, June). Development of a Tissue Dielectric Properties Model Based on Maxwell-Fricke Mixture Theory. In *2018 IEEE International Microwave Biomedical Conference (IMBioC)* (pp. 22-24). IEEE.
- Rogers, J. D., Niemeier, R. C., Etoz, S., & Brace, C. (2018, March). Lens-free common path OCT probe for quantification of optical scattering properties (Conference Presentation). In *Biophysics, Biology and Biophotonics III: the Crossroads* (Vol. 10504, p. 105040A). International Society for Optics and Photonics.