Katelyn Hasse, PhD

Educational Background

Medical Physics Residency, University of California, San Francisco, Department of Radiation Oncology (2018 - 2020)

Ph.D., Biomedical Physics, University of California, Los Angeles (2018)

B.S., Honors Nuclear Engineering, University of Tennessee, Knoxville (2013)

Awards and Honors

National Science Foundation Graduate Research Fellowship (2015-2018)

UCLA Dean's Scholar Award Fellowship Recipient (2013)

National Academy of Engineers Grand Challenge Scholar (2013)

Publications

Hasse, K., O'Connell, D., Min, Y., Neylon, J., Low, D.A., and A. P. Santhanam. **Estimation and validation of patient-specific high-resolution lung elasticity derived from 4DCT.** Medical Physics. 45(2): 666-677. (2018).

Hasse, K., Neylon, J., and Anand P. Santhanam. **Feasibility and quantitative analysis of a biomechanical model-guided lung elastography for radiotherapy.** Biomedical Physics and Engineering Express. 3(2): p. 025006. (2017).

Neylon, J., Hasse, K., Sheng, K., and Anand P. Santhanam. **Modeling and simulation of tumor-influenced high resolution real-time physics-based breast models for model-guided robotic interventions.** Proc. SPIE 9786, Medical Imaging 2016: Image-Guided Procedures, Robotic Interventions, and Modeling, 97860X. (2016).

Hasse, K., Neylon, J., Sheng, K., and Anand P. Santhanam. **Systematic feasibility analysis of a quantitative elasticity estimation for breast anatomy using supine/prone patient postures**. Medical Physics 43.3. (2016).

Characterizing and validating patient-specific high resolution lung elasticity from 4DCT imaging, 59th AAPM Annual Meeting, 2017 (Denver, CO).

Characterizing patient-specific lung elasticity from 4DCT for improving lung radiotherapy, Physics and Biology in Medicine Research Colloquium, 2017 (Los Angeles, CA).

58th AAPM Annual Meeting, 2016 (Washington, D.C.).

Systematic Feasibility Analysis of a Quantitative Elasticity Estimation for Breast Anatomy Using Supine/prone Model Postures, 57th AAPM Annual Meeting, 2015. (Anaheim, CA).

Systematic feasibility analysis of a quantitative elasticity estimation for breast anatomy using supine/prone model postures,•Physics and Biology in Medicine Research Colloquium, 2015. (Los Angeles, CA).

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