

## 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).

\*/

UCSF Main Site

© 2015 The Regents of the University of California

---

**Source URL:** <http://radonc.ucsf.edu/katelyn-hasse-phd>