Matthew C. Hancock

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Education

Fall 2012-present
Ph.D. Candidate in Applied and Computational Mathematics
Florida State University

Focus: Machine learning and image-processing methods for lung analysis

Relevant coursework: Numerical Methods for Interpolation, Integration, ODEs/PDEs, Linear Algebra, and Optimization, Machine Learning, Probability theory and Statistical Inference

Spring 2012
B.S. in Applied Mathematics with Computer Science focus
Ferris State University

Journal Publications

- Matthew C. Hancock, Jerry F. Magnan. **Lung nodule malignancy classification using only radiologist quantified image features as inputs to statistical learning algorithms: probing the Lung Image Database Consortium dataset with two statistical learning methods**. *SPIE Journal of Medical Imaging*. Dec. 2016. http://dx.doi.org/10.1117/1.JMI.3.4.044504

Conference Proceedings

- Matthew C. Hancock, Jerry F. Magnan. **Predictive capabilities of statistical learning methods for lung nodule malignancy classification using diagnostic image features: an investigation using the Lung Image Database Consortium dataset**. *SPIE Medical Imaging Symposium, Computer-Aided Diagnosis Conference*. Feb 2017.

Work Experience

Fall 2012-present
Teaching Assistant at Florida State University

Responsibilities / Accomplishments:

- Teaching assistant for Foundations of Computational Math (graduate level course) (Fall 2016 and Spring 2017).
- Instructor for C++ computing seminar (Fall 2016).
- Instructor for Calculus 1 (Spring 2016 and Summer 2016).
- Instructor for Precalculus (Fall 2014 and Spring 2015).
- Recitation instructor for Discrete Mathematics (Fall 2015).
- Assistant with lower-level math courses (College algebra, Liberal Arts math, Trigonometry, Business calculus).

Fall 2011-Fall 2012	**Web developer** at Occupational Research and Assessment
	Responsibilities / Accomplishments:
	• Created and helped to design web systems for a number of third-party organizations using Ruby.
	• Learned basic web development skills.

Computer skills

- Python (NumPy, SciPy, Scikit Learn, Scikit Image, Theano, Cython)

- C++

- LaTeX

- Web (HTML, CSS, JavaScript; lesser: Ruby, PHP)

- SQLite, MySQL