JEFF LIEVENSE

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RESEARCH

Deep Learning, Probabilistic Modeling, Statistical Inference.

My focus is the design and analysis of generative models that can explain the successes and shortcomings of modern deep learning architectures from first principles. Gated recurrent neural networks are of particular interest.

EDUCATION

Rice University, Houston, TX — *09/2014 - 05/2020*
PhD candidate, Electrical and Computer Engineering — *(expected)*
Advisor: Dr. Richard G. Baraniuk

University of California, Berkeley, CA — *09/2010 - 05/2014*
BS, Electrical and Computer Engineering
GPA: 3.6 (major) / 3.3 (overall)

Coursework in Statistical Learning, Data Mining, Optimization, Algorithms, Probability, Stochastic Processes, Coding Theory, Linear Algebra, Sparse Structure Recovery, Real Analysis, Discrete Mathematics.

EMPLOYMENT

DSP Group, Rice University, Houston, TX — *09/2014 - present*
Research with and course assistant for Dr. Richard G. Baraniuk.

SWARM Lab, University of California, Berkeley, CA — *01/2013 - 01/2014*
Research assistant with Dr. Mekhail Anwar, Dr. Bernhard Boser.
Designed test setup for novel high resolution medical imaging device.

Texas Instruments Silicon Valley Labs, Santa Clara, CA — *05/2012 - 09/2012*
Test engineering intern with Signal and Data Path Solutions team.
Designed and tested devices used to characterize PCB vias.

Amyris Inc., Emeryville, CA — *05/2011 - 09/2011*
Research intern with Dr. Jeremy Agresti in Emerging Technologies.
Designed and fabricated microfluidic devices for picoscreening.

TEACHING

ELEC 475: Learning from Sensor Data — *Rice University*
Teaching assistant, course development for Dr. Richard G. Baraniuk. — *Spring 2016*

ELEC 301: Introduction to Signals and Systems — *Rice University*
Teaching assistant, course development for Dr. Richard G. Baraniuk. — *Fall 2014 - present*

EE 20N: Structure & Interpretation of Signals and Systems — *UC Berkeley*
Lab assistant for Dr. Babak Ayazifar. — *Fall 2012 - Spring 2014*