

## Anil Ramakrishna

akramakr@usc.edu | +1-213-300-8520

www-scf.usc.edu/~akramakr

2366 Portland Street

Los Angeles, CA 90007

### Research Interests

Machine Learning, Data Mining, Artificial Intelligence.

### EDUCATION

**University of Southern California**, Los Angeles, CA

Master of Science, Computer Science

Emphasis: Data Sciences

May 2014

Current GPA: 3.61

**BMS College of Engineering**, Bangalore, India

Bachelor of Engineering

Emphasis: Information Science & Engineering

July 2010

Aggregate %: 80.2/100

### TECHNICAL SKILLS

**Programming Languages:** C, Python, Common Lisp, Perl and Java (beginner), Scripting Languages (BASH, KSH).

**Technical Computing:** MATLAB, GNU/Octave, LabVIEW(beginner).

**Web development:** HTML(with CSS), JavaScript(with jQuery, D3, Polymaps), CGI with Perl.

**System Administration:** GNU/Linux, Red Hat, openSUSE, HP-UX.

### RESEARCH PROJECTS

#### Directed Research II

- Completed a project with Prof. Yan Liu in which we evaluated the use of Transfer Learning to "warm start" an Active Learning algorithm to achieve improved label complexity on active learning.
- The work has been submitted to the International Conference of Machine Learning and is currently under review for publication.

#### Directed Research I

- Developed a web based spatio-temporal data visualization and analysis system for a directed research project under Prof. Rajiv Maheswaran and Prof. Yu-Han Chang of ISI, USC.
- The system was applied to Los Angeles Fire Department's call history data and key inferences were made about its operations.

#### Bachelor's thesis

- Completed a research project at the Indian Institute of Science (IISc) in which we were investigating for optimality in the data on foraging movements of a specific creature by simulating its decision strategy using an Artificial Neural Network.
- Parallel Genetic Algorithm (GA) was used to train the Artificial Neural Network (ANN) by encoding the network weight vector as candidate solutions of the GA whose fitness function modeled the ANN's performance.

### PUBLICATIONS

- David Kale, Marjan Ghazvininejad, Anil Ramakrishna, Yan Liu, *Hierarchical Transfer Learning with Feedback*, International Conference on Machine Learning, 2014 (in review).
- Anil Ramakrishna, Yu-Han Chang, Rajiv Maheswaran, *An Interactive Web Based Spatio-Temporal Visualization System*, International Symposium on Visual Computing, 2013. [Poster]
- Anil Ramakrishna, *A statistical approach to estimate seasonal crop production in India*, Mining Intelligence and Knowledge Exploration, 2013. [Short Paper]
- Anil Ramakrishna, *Active Learning to reduce the label complexity of classification in census income data*, International Conference on Machine Learning and Computing, 2014. [Oral Presentation]

### WORK EXPERIENCE

#### System Software Engineer

July 2010 to June 2012

**Hewlett Packard R&D**, Bangalore, India

- Worked on the development of two frameworks used for file system validation in HP-UX.

#### Software Development Intern

January 2010 to May 2010

**National Instruments R&D**, Bangalore, India

- Worked on the development of advanced debugging tools in NI's LabVIEW.