

Tomas McCandless

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EDUCATION	<i>Master of Science, Bachelor of Science, Computer Science</i> <i>Bachelor of Arts, Philosophy</i> University of Texas at Austin expected May 2014 GPA: 3.67 CS GPA: 3.73
TECHNICAL SKILLS	<i>Fluent:</i> Java, Matlab, C, Python, Linux/Unix, git <i>Familiar:</i> C++, Ruby, LISP, Haskell, Prolog, L ^A T _E X, HBase, gwt, JavaCC, libsvm
SELECTED PUBLICATIONS	<i>Object-Centric Spatio-Temporal Pyramids for Egocentric Activity Recognition</i> <ul style="list-style-type: none">• To appear, British Machine Vision Conference, 2013• Use SVMs for classification of first-person video• Multi-resolution histograms of detected objects used as feature vectors• Boost weak SVM classifiers into final strong classifier
RESEARCH	<i>Linear vs. Hierarchical Segmentation of Egocentric Video</i> <ul style="list-style-type: none">• Partition hours of first-person video into events• k-means clustering with temporal constraints (tck-means)• Histogram intersection using pixel intensities as features• Prototype UI for fast video browsing based on linear or hierarchical segmentation
EXPERIENCE	<div><div><i>Software Engineering Intern</i> Workday, Performance Engineering, Pleasanton, CA</div><div><ul style="list-style-type: none">• Researched and deployed a distributed, scalable system for collecting and visualizing performance metrics.• Over 500 different metrics collected from mySQL, Linux Kernel, and other sources.• Developed a webapp using gwt for downloading collected data.</div><div><i>Undergraduate Assistant</i> Department of Computer Science, University of Texas at Austin</div><div><ul style="list-style-type: none">• Assisted students in Algorithms and Data Structures with designing and debugging Java programs.• Graded exams.</div></div>
SELECTED COURSEWORK	<i>Graduate:</i> Parallel Algorithms, Machine Learning, Programming Languages, Formal Semantics <i>Undergraduate:</i> Computer Vision, Information Retrieval, Operating Systems, Algorithms, Artificial Intelligence, Computer Graphics, Computational Linguistics, Programming for Correctness, Probability, Number Theory
EXTRA-CURRICULAR ACTIVITIES	<i>Recipient, Chevron Scholarship (2012)</i> <i>Recipient, Tracor/Frank McBee, Jr. Scholarship (2011)</i> Association for Computing Machinery Undergraduate Philosophy Association Longhorn Billiards Club