

Lexiang Ye

OBJECTIVE	Full-time position as a software engineer, interested in data mining, machine learning, and database	
CONTACT INFORMATION	763 Grape Street Riverside, CA 92507	<i>Cellphone:</i> (951) 323-1629 <i>E-mail:</i> lexiangy@cs.ucr.edu <i>URL:</i> www.cs.ucr.edu/~lexiangy
SKILLS SUMMARY	<ul style="list-style-type: none">• 5-year development experience with C/C++, 3-year with Matlab, and 2 year with PHP, JSP and PostgreSQL, 1 year with Python• 3-year development experience on Linux and Windows• Selected graduate courses: data mining techniques, artificial intelligence, design and analysis of algorithms, database management systems, seminar in machine learning	
EDUCATION	University of California, Riverside, CA, USA Ph.D., Computer Science and Engineering Sep 2006 - Dec 2009 (Expected) <ul style="list-style-type: none">• Research Interests: Data Mining, and Machine Learning. Especially on techniques for solving similarity and indexing problems in time-series datasets Zhejiang University, Zhejiang, China B.S., Computer Science and Information Engineering Sep 2002 - Jun 2006 <ul style="list-style-type: none">• Thesis topic: Heuristic global partial order mining algorithm (Excellent Thesis Award)• Major GPA: 3.92/4.0, Rank: 20/487	
ACADEMIC EXPERIENCE	University of California, Riverside <i>Research Assistant</i>	Aug 2007 - present
	Feature Extraction from Generic Time-series Datasets <ul style="list-style-type: none">• Introduced a method to extract the most distinguishing subsequences from time-series datasets• Applied the technique to classification in various datasets (e.g. shape, multi-dimensional gait analysis), achieving interpretable, more accurate and significantly faster results than the state-of-the-art classifiers• An application in C++, wrapped by Matlab interface is publicly available Anytime Asymmetric Similarity Join <ul style="list-style-type: none">• Cast similarity join algorithm into anytime framework in large-scale high-dimensional datasets• Indexed the smaller dataset to efficiently accelerate the join process• This approach has been successfully applied to domains such as anomaly detection and annotation of historical manuscripts Anyspace Indexing for Low Computational Power Sensors <ul style="list-style-type: none">• Addressed the quadratic space requirement of an efficient indexing using Orchard's algorithm• Extended the algorithm to maximize performances, by dynamically deallocating indexing space Nemascope Similarity Search Project <ul style="list-style-type: none">• Setup and maintain the GUI for the website. Implemented several texture matching algorithms• The website is using PHP, JSP and PostgreSQL. Publicly accessible prototype can be seen here: http://nemascope.cs.ucr.edu/. (username: test; password: test)	
	Zhejiang University <i>Research Assistant in Artificial Intelligence Center</i>	Aug 2005 - Jun 2006
	Partial Order Modeling on Sequential Data Mining <ul style="list-style-type: none">• Integrated heuristic methods to largely minimize the construction cost for global partial orders• The algorithm is implemented in C++	
INDUSTRY EXPERIENCE	Nokia Research Center, Palo Alto, CA <i>Summer Intern</i>	Jun 2008 - Sep 2008
	Content Based Image Search on Wikipedia <ul style="list-style-type: none">• Provided a pipeline prototype of searching Wikipedia using images. Divided the problem into four modules: image process, image matching, image-word association, word-document mapping.• Provide a new quantizing method of the image descriptor• The main languages used is C++ and Python	

PUBLICATIONS

Lexiang Ye and Eamonn Keogh. *Time Series Shapelets: A New Primitive for Data Mining*. SIGKDD 2009.

Lexiang Ye, Xiaoyue Wang, and Eamonn Keogh. *Autocannibalistic and Anyspace Indexing Algorithms with Applications to Sensor Data Mining*. In SIAM International Conference on Data Mining 2009.

Taryn Rampley, **Lexiang Ye**, Eamonn Keogh, and Sang-Hee Lee, *Automatic Construction of Typologies for Massive Collections of Projectile Points and other Cultural Artifacts*. In the 37th Annual International Conference on Computer Applications and Quantitative Methods in Archeology (CAA).

Lexiang Ye, Xiaoyue Wang, Dragomir Yankov, and Eamonn Keogh. *The Asymmetric Approximate Anytime Join: A New Primitive with Applications to Data Mining*. In SIAM International Conference on Data Mining 2008.

Xiaoyue Wang, **Lexiang Ye**, Eamonn Keogh and Christian Shelton. *Annotating Historical Archives of Images*. In JCDL 2008. **Runner-Up for Best Student Paper Award**.

REFERENCE

Available Upon Request