

PHILIP A. ZIGORIS

Contact Information

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Objective

To flex my mind in a fast moving, forward thinking, science driven environment.

Experience

Anything & Everything Soup Dog Software LLC October 2008 - present

- Published a number of successful iPhone applications including *iGo* which has maintained a top 100 position since December.
- Consulted with a number of clients developing iPhone apps, providing data mining services, and early stage technical advice.

Cofounder, Software Engineer Archivd, Inc October 2008 - January 2009

- With cofounder, conceived and developed product roadmap & prototype.
- Helped find seed funding. Finalist for YCombinator Winter 2008.

Information Retrieval Engineer, Spock Networks February 2007 - October 2008

- Designed, implemented, and optimized backend infrastructure – includes search engine, mining pipeline, messaging system, and storage API.
- Introduced and built tools around Amazon Services (EC2, S3, SDB) that enabled a massive scale up in data processing.
- Initiated and developed core conflation technology, leveraging my machine learning experience.

Research Engineer, IBM Almaden Research Center June - December 2006

- Significantly improved performance in core Content Protection technology using statistical machine learning methods.
- Implemented, in Java, an extensible Bayesian Network toolkit.

Graduate Research Assistant, UC Santa Cruz Summer 2005 - December 2006

- Developed a hierarchical user model that securely leverages information from existing users to alleviate poor performance with new users.
- Investigated use of message passing algorithms for linear programming.

Research Assistant, Cornell University Summer 2003 - Summer 2004

- Implemented, in C, a new algorithm for learning sequence alignment parameters (SVM^{align}) and dependencies between classes for multi-class learning.

Education

M.Sc., Computer Science, University of California, Santa Cruz December 2006

- Thesis title: *Improved Traitor Tracing Algorithms*

B.Sc., Computer Science, Cornell University Winter 2003

Patents

with Hongxia Jin, Jeff Lotspiech. *System, method, and service for tracing traitors from content protection circumvention devices*. 2006 (Pending)

Publications

with H. Jin, *Bayesian Methods for Practical Traitor Tracing*, Applied Cryptography and Network Security 2007.

with D. Eads, *Unsupervised Learning of Tree Alignment Models for Information Extraction*, Workshop on Ontology Mining and Knowledge Discovery from Semi-Structured Documents, ICDM 2006.

with Y. Zhang, *Bayesian Adaptive User Profiling with Explicit & Implicit Feedback*, Conference on Information and Knowledge Management, 2006.

Software	SVM^{align} : Learning sequence alignment parameters with Support Vector Machines cost.boost : Implementation of cost-sensitive boosting methods (R package) for iPhone : iGo, Fetch, eyeTrip, Dim Sum Totally, Pushover (pending), Just Cards (pending)
Advanced Coursework	Machine Learning, Algorithm Design and Analysis, Natural Language Processing, Bayesian Statistics, Optimization Theory and Applications, Random Processes.
Technologies	Python, Objective C (Cocoa), C/C++, Java, Perl, Matlab, R, Thrift, AWS, shell scripting, unix utilities (syslog, cron, etc)