

# CSE Weekly Newsletter

FRIDAY, JUNE 21, 2013 - GRADUATION EDITION



## Congratulations to the 2012-2013 PhD Graduates!



### **Steven Branson**

Advisor: Serge Belongie

Dissertation Title: Interactive Learning and Prediction Algorithms For Computer Vision Applications

Current Employment: Caltech; Pasadena, CA; Postdoc

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### **Adrian Caulfield**

Advisor: Steven Swanson

Dissertation Title: Moneta: A Storage System for Fast Non-Volatile Memories

Current Employment: Microsoft; Redmond, WA; Senior Research HDE

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### **Laura Caulfield**

Advisor: Steven Swanson

Dissertation Title: Symbiotic Solid State Drives: Management of Modern Flash Devices

Current Employment: Microsoft; Redmond, WA; Software Development Engineer

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### **Liang Chen**

Advisor: Yannis Papakonstantinou

Dissertation Title: Context-sensitive Ranking

Current Employment: Microsoft Research Asia; Beijing, China; Researcher

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### **Mingjing Chen**

Advisor: Alex Orailoglu

Dissertation Title: Tackling Nanoscale IC Failures Through Noise-aware Testing and Silicon Debugging

Current Employment: Broadcom; San Diego, CA; Staff IC Design Engineer

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### **Barry Demchak**

Advisor: Ingolf Krueger

Dissertation Title: Policy Driven Development: SOA Evolvability through Late Binding

Current Employment: UCSD Medical School; La Jolla, CA; Chief Software Architect



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### **Nathan Farrington**

Advisor: Amin Vahdat

Dissertation Title: Optics in Data Center Network Architecture

Current Employment: Facebook; Menlo Park, CA; Data Center Network Engineer

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### **Saturnino Garcia**

Advisor: Michael B. Taylor

Dissertation Title: A Practical Oracle for Sequence Code Parallelization

Current Employment: University of San Diego; San Diego, CA; Visiting Assistant Professor

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### **Donghwan Jeon**

Advisor: Michael Taylor

Dissertation Title: Parallel Speedup Estimates for Serial Programs

Current Employment: Google Seattle; Seattle, WA; Software Engineer

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### **Md Kamruzzaman**

Advisors: Dean Tullsen & Steven Swanson

Dissertation Title: Architecture Aware Software Techniques to Improve Application Performance in Parallel Systems

Current Employment: Hitachi Global Storage Technology Research; San Jose, CA; Research Staff

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### **Christopher Kanan**

Advisor: Garrison Cottrell, Terrence Sejnowski

Dissertation Title: In Defense of Brain-Inspired Cognitive Models

Current Employment: TBA

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### **Alden King**

Advisor: Scott Baden

Dissertation Title: Compile-time Optimization of a Scientific Library through Domain-Specific Source-to-Source Translation

Current Employment: Google; Irvine CA; Software Engineer



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### **Vasileios Kontorinis**

Advisor: Dean Tullsen  
Dissertation Title: Adaptive Architecture for Peak Power Management  
Current Employment: Google; Mountain View, CA; Software Engineer

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### **Vinh The Lam**

Advisor: George Varghese  
Dissertation Title: Scalable Traffic Management for Data Centers and Logging Devices  
Current Employment: Google; Mountain View, CA; Software Engineer

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### **John C. McCullough**

Advisor: Alex C. Snoeren  
Dissertation Title: Energy Efficiency and Data Center Systems  
Current Employment: Google; Mountain View, CA; Software Engineer

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### **Massimiliano Menarini**

Advisor: Ingolf Krueger  
Dissertation Title: Composing Crosscutting Concerns: A Service-Oriented View  
Current Employment: UCSD CSE; San Diego, CA; Post Doc

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### **Aditya Menon**

Advisor: Charles Elkan  
Dissertation Title: Latent Feature Models for Dyadic Prediction  
Current Employment: NICTA Canberra Research Lab; New South Wales, Australia;  
Researcher in Machine Learning Group

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### **Petros Mol**

Advisor: Daniele Micciancio  
Dissertation Title: Improving Cryptographic Constructions Using Coding Theory  
Current Employment: Google; New York City, NY; Software Engineer IV



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### **Radhika Niranjan Mysore**

Advisor: Amin Vahdat

Dissertation Title: Automated Scalable Management of Data Center Networks

Current Employment: Google; Mountainview, CA; Software Engineer

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### **Alexander Rasmussen**

Advisor: Amin Vahdat

Dissertation Title: I/O-Efficient Data-Intensive Computing

Current Employment: Trifacta; San Francisco, CA; Senior Software Engineer

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### **Patrick M. Rondon**

Advisor: Ranjit Jhala

Dissertation Title: Liquid Types

Current Employment: Google; New York City, NY; Software Engineer

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### **Paul Ruvolo**

Advisor: Garrison Cottrell

Dissertation Title: A Computational Approach to the Study of Social Interaction

Current Employment: Bryn Mawr College; Philadelphia, PA; Post-Doc

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### **Ross Tate**

Advisor: Sorin Lerner

Dissertation Title: Equality Saturation: Using Equational Reasoning to Optimize Imperative Functions

Current Employment: Cornell University; Ithaca, NY; Assistant Professor



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### **Cuong Tran**

Advisor: Mohan Trivedi (ECE)  
Dissertation Title: Human Machine Interactivity Using Vision-based Posture Analysis at Multiple Levels  
Current Employment: Honda Research Institute; Mountain View, CA; Scientist

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### **Andrea Vattani**

Advisor: Ramamohan Paturi  
Dissertation Title: Algorithmic Modeling of Decision Making over Networks  
Current Employment: Start-Up; San Francisco, CA; Co-Founder/Partner

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### **Nakul Verma**

Advisor: Sanjoy Dasgupta  
Dissertation Title: Learning From Data With Low Intrinsic Dimension  
Current Employment: Amazon Inc.; Seattle, WA; Machine Learning Scientist

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### **Meg Walraed-Sullivan**

Advisors: Amin Vahat & Keith Marzullo  
Dissertation Title: Scalable, Efficient, and Fault-Tolerant Data Center  
Current Employment: Microsoft Research; Redmond, WA; Postdoctoral Research Associate

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### **Kai Wang**

Advisor: Serge Belongie  
Dissertation Topic: Word Spotting in the Wild  
Current Employment: Google; Los Angeles, CA; Software Engineer



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### **Shih-Hung Weng**

Advisor: Chung Cheng

Dissertation Title: Circuit Simulation via Matrix Exponential Method

Current Employment: Facebook; Menlo Park, CA; Research Scientist

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### **Jacob Whitehill**

Advisor: Garrison Cottrell

Dissertation Title: A Stochastic Optimal Control Perspective on Affect-sensitive Teaching

Current Employment: Machine Perception Technologies; San Diego, CA; Research Scientist

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### **Celal Ziftci**

Advisor: Ingolf Krueger

Dissertation Title: Mining Test Cases To Improve Software Maintenance

Current Employment: Google; New York; Software Development Engineer

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### **Gjergji Zyba**

Advisor: Geoffrey Voelker

Dissertation Title: Mobile Malware Propagation and Defense

Current Employment: TBA