Bryant Lee

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Education

Carnegie Mellon University   Pittsburgh, PA
Ph.D. Computer Science, 2011 (Expected)
Advisor: Luis von Ahn

University of Maryland   College Park, MD
B.S. Computer Science, 2006
B.S. Mathematics, 2006
GPA 4.0/4.0

Research Experience

Research Assistant   2007
Luis von Ahn   Carnegie Mellon University
Develop online games that produce useful computation as a side effect.

Research Assistant   2005–2006
Uzi Vishkin   U. Maryland
Programmed parallel image processing and graphics applications for a future multi-core with 1024
CPUs (tested in simulation). The image processing application spatially aligned medical images to
help doctors identify abnormalities. Parallelized part of OpenGL. Contributed to the development
of a compiler and simulator for the parallel computer.

Research Assistant   2003–2004
Michael Boyle   U. Maryland
Developed programs to generate experimental data for testing conjectures about the theoretical
properties of cellular automata.

Research Assistant   2003–2004
Michael L. Anderson   U. Maryland
Conducted emprical studies of language, using dialogue transcripts, for application in natural lan-
guage processing systems.

Honors and Awards

NSF Graduate Research Fellowship, 2006

NDSEG Fellowship, 2006

NSF REU Grant, 2005

NSF VIGRE Research Grant, 2004

Banneker-Key Full Scholarship, U. Maryland, 2002

Publications

Book Chapters

U. Vishkin, G. Caragea, and B. Lee. Models for advancing PRAM and other algorithms into parallel programs for a PRAM-On-Chip platform in *Handbook of Parallel Computing: Models, Algorithms, and Applications*, S. Rajasekaran and J. Reif, eds., Chapman and Hall, 2007.

Journal Papers

M. Boyle and B. Lee. Jointly periodic points in cellular automata: Computer explorations and conjectures. *Experimental Mathematics*, 2007.

Conference Papers

T. Dubois, B. Lee, Y. Wang, M. Olano, and U. Vishkin. XMT-GPU: A PRAM architecture for graphics computation. *International Conference on Parallel Processing*, 2008.

M. L. Anderson, B. Lee, S. Li, J. Go, B. Sutandio, and L. Y. Zhou. On the types, frequency, uses, and characteristics of meta-language in conversation. *The 28th Annual Conference of the Cognitive Science Society*, 2006.

M. L. Anderson and B. Lee. Meta-language for dialog management. *16th Annual Winter Conference on Discourse, Text, and Cognition*, 2005.

M. L. Anderson, A. Fister, B. Lee, L. Tardia, and D. Wang. On the types and frequency of meta-language in conversation: A preliminary report. *14th Annual Meeting of the Society for Text and Discourse*, 2004.

Full-text papers available at `http://www.cs.cmu.edu/~bryantl`.