1234 SW 18th Ave Unit 506 Portland, OR 97205

EDUCATION & AWARDS	
Sept. 2002 – July 2007	Doctor of Philosophy
	Department of Electrical Engineering and Computer Science
	Northwestern University, Evanston, Illinois
	Cumulative GPA: 3.8/4.0
	Thesis: Human-driven Optimization
	Advisor: Professor Peter A. Dinda
Sept. 2002 – July 2004	Master of Science
	Computer Science Department
	Northwestern University, Evanston, Illinois
G (1007 I 1 2002	Cumulative GPA: 3.8/4.0
Sept. 1997 – July 2002	Bachelor of Science
	Department of Computer Science and Technology
	Cumulative CDA: 2.8/4.0
	Cullulative OFA. 5.8/4.0 CRE: Verbal 610 (86%) / Quantitative 800 (08%) / Analytical 800 (00%)
WODZING EVDEDIEN	
WURKING EAPERIE	
August, 2007 – present	Senior Software Engineer, Intel Corporate, Hillsboro, UK
	Software & Services Group / System Software Division / Windows OS, VMM & Scounity
	 Identify hardware and software based nower and performance
	ontimization opportunities. This includes comprehensive data
	collection and analysis on today's platforms, proposing
	enhancements, build prototypes and emulation to understand and
	establish value proposition to provide input into next-generation
	hardware and software architecture (base OS, VMM and application).
	• Debug software problems, Windows kernel problems and provide
	support for both internal & external teams.
June, 2006 - Sept., 2006	Intern, Intel Research Laboratory, Pittsburgh, PA
	• Researched and designed operating system support for the Log-Based
	Architectures for many-core processors that enable efficient logging
	and extraction of run time execution events.
	• Developed a Linux patch using C through intensive kernel
	programming.
	• Developed a system-call interception mechanism enabling efficient
	error and intrusion detection.
	• Evaluated performance of latest Linux multi-core scheduler.
1 2005 0 2005	• manager: Prof. Todd Mowry
June, 2005 – Sept., 2005	Intern, IBM T.J. Watson Research Center, Hawthorne, NY
	• Researched and extended existing model for benchmarking II
	configuration complexity by introducing the concept of decision
	complexity.
	• Proposed a model to capture and measure the decision complexity
	Developed and conducted a corefully controlled web based user study.
	• Developed and conducted a carefully controlled web-based user study using a IAVA Servlet based architecture with server side collection of
	data including timings
	 XMI -hased experiment configuration files were used to achieve fine
	grained control and flexibility.
	• Results revealed important fact about decision and identified key factors affecting decision complexity, which were used to extract

some guidance for system designers seeking to reduce the configuration complexity of their systems.

manager: Dr Joseph L. Hellerstein

COMPUTER SKILLS:

- Proficiency in C
- Well experienced in C++, Java Servlet and Perl
- Well experienced in Linux Kernel Programming, Systems Programming and Socket Programming
- Well experienced in Windows Kernel Programming and Debugging
- Well experience in virtualization technology including Windows Hyper-V and VMware
- Well experienced in Graphical User Interface design and development
- Well experience in design and conduct of user studies
- Well experienced in Borland C++ Builder, Eclipse and Microsoft Visual C++
- Experienced in HTML and XML

ACADEMIA AWARDS AND FELLOWSHIPS

	Three Intel Division Recognition Awards and several business group recognition awards
Leadership Awards	Outstanding Leadership Award, 2004-05, Northwestern University
Academic Awards	Morrison Terminal Year Fellowship, 2006
	IBM Ph.D. Fellowship Program , 2006, Nominated
	Walter P. Murphy Fellowship, 2002
	Excellent Student Scholarship, 1998-99, 1999-00, 2000-01
	Excellent Freshman Scholarship, 1997
Other Award	3rd Place Winner, 2007 Applied Research Day
	Organizer: InNuvation - Entrepreneurship and Innovation at Northwestern
TEACHING EXPERIE	INCE
Sept. 2002 – Sept. 2006	Northwestern University, EECS Department
	Teaching Assistant for both undergraduate and graduate classes;
	responsibilities include
	• Conducted weekly recitation sections and held office hours
	• Wrote and graded solutions for home works, exams and
	implementation-based projects

PUBLICATIONS (Selected)

DISSERTATION

"Human-driven Optimization", NWU-EECS-07-04, Department of Electrical Engineering & Computer Science, Northwestern University, July 26th, 2007

JOURNAL PAPER

- **B. Lin**, A. Sundararaj, P. Dinda, *"Time-sharing Parallel Applications With Performance Isolation and Control"*, Cluster Computing, Volume 11, Number 3, September 2008.
- A. Mallik, **B. Lin**, G. Memik, P. Dinda, R. Dick, "*User-Driven Frequency Scaling*", IEEE Computer Society Computer Architecture Letters, Volume 5, Number 2, July-December 2006.

CONFERENCE AND WORKSHOP PAPERS

- **B. Lin**, P. Dinda, "*Experiences With Scheduling and Mapping Games for Adaptive Distributed Systems: Summary*", IEEE International Conference on Autonomic Computing (ICAC), June 2009.
- **B. Lin**, A. Mallik, P. Dinda, G. Memik, R. Dick, "*User- and Process-Driven Dynamic Voltage and Frequency Scaling*", IEEE International Symposium on Performance Analysis of Systems and Software (ISPASS), April, 2009.
- P. Dinda, G. Memik, R. Dick, **B. Lin**, A. Mallik, A. Gupta, S. Rossoff, "*The User In Experimental Computer Systems Research*", Workshop on Experimental Computer Science (ExpCS), June 2007.

- **B. Lin**, A. Mallik, P. Dinda, G. Memik, R. Dick, "*Power Reduction Through Measurement and Modeling of Users and CPUs: Summary*", ACM International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS), June 2007.
- **B. Lin**, A. Brown, J. Hellerstein, "*Towards an Understanding of Decision Complexity in IT Configuration*", ACM Symposium on Computer-Human Interaction for Management of Information Technology (CHIMIT), March 2007, also a short paper appeared in IEEE International Conference on Autonomic Computing (ICAC), June 2006.
- **B. Lin**, P. Dinda, "*Towards Scheduling Virtual Machines Based On Direct User Input*", International Workshop on Virtualization Technology in Distributed Computing (VTDC'06), in conjunction with Supercomputing, Nov. 2006.
- S. Chen, B. Falsafi, P. Gibbons, M. Kozuch, T. Mowry, R. Teodorescu, A. Ailamaki, L. Fix, G. Ganger, B. Lin, S. Schlosser, *"Log-Based Architectures for General-Purpose Monitoring of Deployed Code"*, Workshop on Architectural and System Support for Improving Software Dependability (ASID), Oct. 2006.
- B. Lin, P. Dinda, "VSched: Mixing Batch and Interactive Virtual Machines Using Periodic Realtime Scheduling", ACM/IEEE Supercomputing (SC), Nov. 2005.
- **B. Lin**, P. Dinda, D. Lu, "*User-driven Scheduling of Interactive Virtual Machines*", Workshop on Grid Computing (Grid), in conjunction with Supercomputing, Nov. 2004.
- A. Gupta, **B. Lin**, P. Dinda, "*Measuring and Understanding User Comfort With Resource Borrowing*", IEEE International Symposium on High Performance Distributed Computing (HPDC), June 2004.

PROFESSIONAL ACTIVITIES

Reviewer for

- <<The Handbook of Computer Networks>> (publisher: John Wiley & Sons, Inc.)
- International Conference on Autonomic Computing (ICAC'06)
- IEEE International Symposium on High Performance Distributed Computing (HPDC'05 and 06)
- International Meeting on High Performance Computing for Computational Science (VECPAR'06)

LEADERSHIP

President (2009-present), Vice President (2008-09)

Intel RCGnet (Recent College Graduate Network) Employee Group in Oregon

- Oversees the budgeting and execution of all RCGnet events and initiatives; holds accountability for the employee group chapter
- Supervises four sub-committees (*Communication, Career Development, Community Engagement and Networking*) across all Intel campuses in Oregon

Award

Was invited to Oregon Governor's Volunteer Awards Luncheon (Intel Involved was recognized as the 2008 winner of the Outstanding Employee Volunteer Program.)

President (2004-05), Vice President (2003-04)

Chinese Students & Scholars Association, Northwestern University

Founded in 1982, the largest international student group at Northwestern University URL: <u>http://www.nwucssa.org</u>

Responsibility & Achievement:

- Planned and organized events & community services; 41 events & services covering academia, culture, sport, outing and entertainment; maximum number of event participants over 400
- Supervised and coordinated 8 departments (*Public Relations, Information, Consulting, Social, Sports, Treasure, Outing and Entertainment Departments*) on both Chicago and Evanston campuses
- Helped raised over \$15,000 support from corporations

Awards Outstanding Leadership Award, 2004-05

Outstanding Graduate Student Organization Award, 2004-05 **Excellence In Diversity Programming Award**, 2003-04