

Miriam Kadansky

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Proactive, results-oriented, **Program Manager** combining leadership, research, and technical skills with extensive experience in industrial research, product development, and academic partnering. Experience in large, worldwide organizations as well as small startups. Sought-after troubleshooter and expeditor with proven ability to identify and solve technical and organizational problems. Strong skills in recruitment, retention, mentoring, and people development.

Professional Experience

Sun Microsystems Laboratories, Burlington, MA

1997 - 2009

People, Project, and Program Manager (4 years)

Managed a staff of 13 and a \$2.5 million budget, reporting to the Sun Labs Director. Manager for Project Wonderland, an open source toolkit for building virtual worlds, and Aura, a universal recommendation architecture. Accomplishments include:

- Led a team defining quantifiable annual goals for open source metrics across four Sun Labs projects, resulting in a 30% growth of the metric for FY09.
- Achieved department's patent filing goals, up to 130 per year, by working with legal department to file cases within a limited budget. Motivated researchers to keep inventing despite delays by providing more frequent status updates and self-service tools, and teaming with legal on an innovative university collaborative research agreement addressing patenting.
- Fostered technical collaboration by producing all aspects of Sun's Chief Technology Officer's semi-annual internal technical conferences for Sun's top 200 technical contributors, including running a refereed submission process.
- Salvaged a 100-node grid network from an abandoned initiative, after extensive cost-benefit analysis. Grid now supports several Sun Labs projects at a lower cost than other alternatives.
- Delivered improved internal web team performance despite resource cutbacks by setting priorities and empowering individual project leads. Reduced demand on the team by educating others about self-serve tools.

Research Manager (3 years)

Drove research in programming languages, synchronization, Java™ performance, and security usability. Accomplishments included:

- Coached department through several difficult transitions, focusing on visibility and skill development. Established monthly company-wide Sun Labs newsletter highlighting project news. Produced career improvement workshops including: web2.0, interviewing, writing, Principal Investigator, and conference refereeing skills.
- Streamlined code release and open source licensing procedures to expedite feedback from customers, academics, and collaborative researchers, improving project quality.
- Transferred Java garbage collection (memory reclamation) project to product development, including two researchers. Resettled the rest of the team on other projects.
- Converted DARPA-funded programming language project to Sun Labs-funded research project, redefining objectives and addressing retention issues.

Principal Investigator, Network Scalability & Performance (5 years)

Led research and development in internet-scale reliable multicast, as well as deadlock-free routing, focusing on metrics for optimizing performance in high-speed switched networks.

Accomplishments include:

- Transferred deadlock-free routing project's C code to product engineering team.
- Open-sourced the Java Reliable Multicast Service™, a Java toolkit for building reliable multicast applications, including a reliable multicast transport protocol
- Projects produced 6 published papers and 20 issued patents.

Xyplex, Inc., Littleton, MA (now MRV Communications)

1988 - 1997

Software engineer and manager contributing to successful public offering in 1991.

Previous positions at Jupiter Technology, Interactive Data Corporation, and Distribution Management Systems.

Education

Certificate in Project Management, University of Massachusetts, Lowell (*in progress*)

M.S., high honors, Simmons Graduate School of Information Science

B.A., cum laude, Mathematics, Harvard University

Publications

- *Deadlock-free Routing Based on Ordered Links*, Dah Ming Chiu, Miriam Kadansky, Radia Perlman, Guy Steele, John Reynders, and Murat Yuksel, IEEE Conference on Local Computer Networks 2002.
 - *A Congestion Control Algorithm for Tree-based Reliable Multicast Protocols*, Dah Ming Chiu, Miriam Kadansky, Joe Provino, Joseph Wesley, Hans-Peter Bischof and Haifeng Zhu, Sun Labs Technical Report TR-2001-97. Also published in IEEE Infocom 2002.
 - *Pruning Algorithms for Multicast Flow Control*, Dah Ming Chiu, Miriam Kadansky, Joe Provino, Joseph Wesley and Haifeng Zhu, Sun Labs Technical Report TR-2000-85. Also in Networked Group Communication 2000.
 - *Experiences in Programming a Traffic Shaper*, Dah Ming Chiu, Miriam Kadansky, Joe Provino and Joseph Wesley, Sun Microsystems Laboratories Technical Report TR-99-77. Also in the Fifth IEEE Symposium on Computers and Communications.
 - *The Java™ Reliable Multicast Service: A Reliable Multicast Library*, Steve Hanna, Miriam Kadansky and Phil Rosenzweig, Sun Labs Technical Report TR-98-68.
 - *TRAM: A Tree-based Reliable Multicast Protocol*, Dah Ming Chiu, Stephen Hurst, Miriam Kadansky and Joseph Wesley, Sun Labs Technical Report TR-98-66.
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U.S. Patents – 19 Issued

- Deadlock-free Routing: 7,200,117 Method of optimizing network capacity and fault tolerance in deadlock-free routing, plus two others.
 - Reliable Multicast: 6,850,488 Method and apparatus for facilitating efficient flow control for multicast transmissions, plus fifteen others.
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Outside Interests: Soccer team captain & league organizer, licensed pilot, dog agility competitor.