

# Mortada Mehyar

---

## CONTACT INFORMATION

107 S Holliston Ave Apt 104  
Pasadena, CA 91106

Phone: (626) 795-9870  
Email: [morr@alumni.caltech.edu](mailto:morr@alumni.caltech.edu)  
Homepage: <http://mortada.net>

## EDUCATION

**California Institute of Technology** **Sep 2002 - Aug 2006**

Ph.D. in Electrical Engineering

- Research Group: Networking Lab <http://netlab.caltech.edu/>
- Advisor: Steven H. Low (Professor in CS and EE)

**California Institute of Technology** **Sep 2001 - June 2003**

M.S. in Applied Physics

- Advisor: Rudolph A. Marcus (Nobel laureate in 1992)

**National Taiwan University, Taipei, Taiwan** **Sep 1998 - June 2001**

B.S. in Mathematics

## WORK EXPERIENCE

**Yahoo! Inc., Burbank, CA** **Oct 2008 - present**

*Senior Software Developer*

I work on Yahoo's online advertising platform. I design and develop highly scalable and high-performance software components that enable the auction algorithms and satisfy strict data reporting requirements. My duties also include conducting code reviews, guiding junior developers on various tasks, and making design and architecture proposals.

**Yahoo! Inc., Burbank, CA** **Oct 2006 - Sept 2008**

*Software Developer*

I work on Yahoo's online advertising platform. I develop highly scalable and high-performance software components that enable the auction algorithms and satisfy strict data reporting requirements. My duties also include studying new software technologies, contributing to designs and architecture of our systems, and facilitating collaboration across different teams.

**Symantec Corporation, Santa Monica, CA** **Summer of 2004**

*Summer Intern*

Built and analyzed the TCP performance of a Secure Socket Layer (SSL) network.

**Academia Sinica, Taipei, Taiwan** **Summer of 2000**

*Undergraduate Research Assistant*

Studied laser spectroscopy techniques for understanding DNA-protein interactions.

## HONORS AND AWARDS

- Shannon Prize, 2002 (best student in the Information Theory class by Prof. McEliece)
- Caltech Tuition Award and full Scholarship, 2001
- Early Graduation Award, 2001 (granted a Bachelor degree in 3 years)

## COMPUTER SKILLS

- Working knowledge of C, C++, Java, PHP and Perl.
- Experience with various flavors of Linux and FreeBSD.
- LAMP (Linux, Apache, MySQL, PHP) for Web development.
- Working knowledge of HTML, CSS, and JavaScript.
- Experience with source control in CVS and SVN, also with the GNU build system.

- LANGUAGE SKILLS
- Mandarin (fluent)
  - English (fluent)
- PATENTS
- “Internet Protocol for Distributed Averaging” (US patent filed in 2005.)
- PUBLICATIONS
- “**Optimization Flow Control with Estimation Error**”, Mortada Mehyar, Demetri Spanos, and Steven Low. *Proceedings of IEEE Infocom*, 2004, Hong Kong.
- “**Duality-Based TCP Congestion Control with Error Analysis**” (**Invited**), Mortada Mehyar, Demetri Spanos, and Steven Low. *Performance Evaluation and Planning Methods for the Next Generation Internet*, Kluwer Academic Publishers, 2004.
- “**Distributed Averaging on Asynchronous Communication Networks**”, Mortada Mehyar, Demetri Spanos, John Pongsajapan, Steven Low, and Richard Murray. *Proceedings of IEEE Conference on Decision and Control*, 2005, Spain.
- “**Distributed Averaging on Communication Networks**”, Mortada Mehyar, Demetri Spanos, John Pongsajapan, Steven Low, and Richard Murray. *IEEE Transactions on Networking*, Aug 2007.
- “**Optimal Strategies for Efficient Peer-to-Peer File Sharing**”, Mortada Mehyar, Weihsin Gu, Steven Low, Michelle Effros, Tracey Ho. *International Conference on Acoustics, Speech, and Signal Processing*, 2007, Hawaii.
- TEACHING EXPERIENCE
- Teaching Assistant for Introduction to Control of Physical Systems, Caltech, 2004
  - Teaching Assistant for Networking, Caltech, 2003
  - Teaching Assistant for Introduction to Quantum Mechanics, Caltech, 2002
  - Teaching Assistant for Solid State Electronics for Integrated Circuit, Caltech, 2001
- WORK AUTHORIZATION
- US permanent resident