

# Wesley M. Eddy

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## Permanent Address

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## Objective

To work as a computer scientist conducting novel research on networking and internetworking topics. Research interests in networking include measurement, protocols, topology, privacy, and applications.

## Education

- B.S. in Computer Science, Cum Laude  
Ohio University, 2002.
- M.S. in Computer Science  
Ohio University expected completion in March 2004.  
Thesis: *Improving TCP Performance with Path Error Rate Information*  
Advisor: Shawn Ostermann

*Relevant Skills:* Fluent in C/C++, Scheme, Haskell, assembly programming. Experience with many other programming languages, and the ability to learn them quickly. Unix administration. Linux/BSD kernel hacking. Network communications protocol design and implementation.

*Relevant Courses:* Operating Systems I & II, Computer Networking, Advanced Networking, Information Theory, Communications Engineering, Network Engineering (included configuring Cisco routers), Real-time Systems, Algorithms I & II, Computation Theory, Parallel Computation Theory.

## Work Experience

- **NASA Glenn Research Center, Cleveland OH** 1999 - 2003  
Position: Intern  
For five years I conducted networking research for NASA's Satellite Network and Architectures Branch studying topics including distributed systems over high latency links, network measurement, active queue management, and TCP enhancements for high BER links.
- **Ohio University Internetworking Research Group** 1999 - present  
Position: Researcher and System Administrator.  
I am an active member of the tcptrace (<http://www.tcptrace.org>) development team, administer several Linux and Solaris workstations and work on numerous individually-directed research projects.
- **Ohio University School of Electrical Engineering and Computer Science** 2002 - 2003  
Position: Teaching Assistant  
In addition to grading and helping students to debug and understand programming projects, I delivered several lectures for the Operating Systems I and Computer Networking classes intended for senior-level undergraduates and first-year graduate students.

## Professional Activities

- Association for Computing Machinery (ACM), Member 2003 - present
  - Member of the Special Interest Group on Communications (SIGCOMM).
- Upsilon Pi Epsilon, Member 2002 - present  
Charter member of Ohio University's chapter of the international computing sciences honor society.
- Engineering Ambassador 2000 - 2002  
I was appointed to represent the Computer Science program for Ohio University's Russ College of Engineering and Technology at public relations events for distinguished guests and prospective students.
- Referee: ACM SIGCOMM Internet Measurement Conference 2003, IEEE Transactions on Systems, Man and Cybernetics.

## Publications

- Mark Allman, Wesley M. Eddy, Shawn Ostermann. *Estimating Loss Rates With TCP*. ACM Performance Evaluation Review, 31 (3), December 2003.
- Wesley M. Eddy, Shawn Ostermann, Mark Allman. *New Techniques for Making Transport Protocols Robust to Corruption-Based Loss*. Under Submission, ACM SIGCOMM HotNets-II, July 2003.
- Wesley M. Eddy, Mark Allman. *A Comparison of RED's Byte and Packet Modes*. Computer Networks, 42 (2), June 2003
- Wesley M. Eddy, Shawn Ostermann. *RED in a Nutshell*. Unpublished. October, 2002.
- Mark Allman, Ethan Blanton, Wesley M. Eddy. *A Scalable System for Sharing Internet Measurements*. Proceedings of the Passive and Active Measurement Workshop, March 2002.
- Wesley M. Eddy, Mark Allman. *Advantages of Parallel Processing and the Effects of Communications Time*. NASA Glenn Research Center Technical Report CR-209455, February 2000.

## Presentations

- Wesley M. Eddy, Shawn Ostermann, Mark Allman. *New Techniques for Making TCP Robust to Corruption-Based Loss*. NASA's Space Internet Workshop III, June 2003.
- Wesley M. Eddy, Mark Allman. *A Comparison of RED's Byte and Packet Modes*. SIGCOMM 2002 student poster session with abstract in ACM Computer Communications Review, 32 (3), July 2002.

## Awards

Eagle Scout, National Merit Scholar, Alpha Lambda Delta Honor Society, Golden Key Honor Society, Dean's List, Ohio University Distinguished Scholar.

References available upon request.