

Kevin C. Almeroth

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Education

- Ph.D.** June 1997 *Georgia Institute of Technology* Computer Science
Dissertation Title: Networking and System Support for the Efficient, Scalable Delivery of Services in Interactive Multimedia Systems
Minor: Telecommunications Public Policy
- M.S.** June 1994 *Georgia Institute of Technology* Computer Science
Specialization: Networking and Systems
- B.S.** June 1992 *Georgia Institute of Technology* Information and Computer Science
(high honors) *Minors:* Economics, Technical Communication, American Literature

Employment History

| | | |
|---------------------|---|----------------------|
| Professor | Department of Computer Science University of California Santa Barbara, CA | Jul 2005 -- present |
| Associate Dean | College of Engineering University of California Santa Barbara, CA | Mar 2007 -- Aug 2009 |
| Vice Chair | Department of Computer Science University of California Santa Barbara, CA | Jul 2000 -- Nov 2005 |
| Associate Professor | Department of Computer Science University of California Santa Barbara, CA | Jul 2001 -- Jun 2005 |
| Assistant Professor | Department of Computer Science University of California Santa Barbara, CA | Jul 1997 -- Jun 2001 |

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|----------------------|---|--|
| Graduate Researcher | Broadband Telecommunications Center Georgia Center for Adv Telecom Tech Atlanta, GA | Sep 1996--Jun 1997 |
| Graduate Intern | IBM T.J. Watson Research Labs Hawthorne, NY | Jun 1995--Sep 1995 |
| Support Specialist | Office of Information Technology Georgia Institute of Technology Atlanta, GA | Sep 1995--Jun 1997 |
| Research Assistant | College of Computing Georgia Institute of Technology Atlanta, GA | Jan 1994--Mar 1994 |
| Graduate Intern | Hitachi Telecommunications Norcross, GA | Jun 1992--Sep 1992 |
| Undergraduate Intern | IBM Research Triangle Park, NC | Jun 1989--Sep 1989 Jun 1990--Sep 1990 Mar 1991--Sep 1991 |

Industry Technical Advising

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|---|---|-------------------------|
| Board of Directors | The New Media Studio Santa Barbara, CA | Nov 2006 -- present |
| Co-Founder & Chairman of the Board | Santa Barbara Labs, LLC Santa Barbara, CA | Sep 2007 -- Dec 2009 |
| Board of Advisors | Techknowledge Point Santa Barbara, CA | May 2001 -- Dec 2007 |
| Technical Advisory Board | Occam Networks, Inc. Santa Barbara, CA | May 2000 -- Dec 2010 |
| Board of Advisors | Airplay Inc. San Francisco, CA | Jun 2005 -- Aug 2009 |
| Consultant | Lockheed Martin Corporation San Jose, CA | Nov 1999 -- Jun 2009 |
| Board of Advisors | Santa Barbara Technology Group Santa Barbara, CA | Sep 2000 -- Dec 2004 |
| Board of Directors | Virtual Bandwidth, Inc. Santa Barbara, CA | Nov 2000 -- Jun 2001 |
| Board of Advisors & Affiliated Scientist | Digital Fountain San Francisco, CA | Jan 2000 -- Dec 2001 |
| Senior Technologist | IP Multicast Initiative, Stardust Forums Campbell, CA | Jun 1998 -- Dec 2000 |

I. Teaching

A. Courses Taught

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|-------------|--|--|
| CS 176A | Intro to Computer Communication Networks | Fall 1997, Fall 1998, Fall 2002, Fall 2003, Fall 2004, Spring 2005, Spring 2006, Spring 2007, Spring 2008, Fall 2008, Fall 2009, Fall 2010, Fall 2011, Fall 2012, Fall 2013, Fall 2014 |
| CS 176B | Network Computing | Winter 2000, Winter 2001, Winter 2002, Winter 2012, Winter 2014, Winter 2015 |
| MAT 201B | Media Networks and Services | Fall 1999, Fall 2000, Fall 2001, Fall 2003 |
| CS 276 | Distributed Computing and Computer Networks | Winter 1999, Spring 2000, Fall 2002, Fall 2005 |
| CS 290I | Networking for Multimedia Systems | Winter 1998, Spring 1999, Fall 2004, Winter 2010 |
| CS 595N | Technology and Society | Winter 2005, Fall 2005, Spring 2006, Fall 2006, Spring 2007, Fall 2007, Spring 2008, Fall 2008, Spring 2009 |
| CS 595N | Economic Systems Seminar | Winter 2004, Spring 2004, Winter 2005, Spring 2005 |
| CS 595N | Networking Seminar | Winter 1999, Fall 1999, Winter 2003 |
| CS 595N | Wireless Networking & Multimedia Seminar | Fall 2000 |
| CS 595I | Systems Design and Implementation Seminar | Fall 1999, Fall 2000, Winter 2001, Spring 2001, Winter 2002, Spring 2002 |

B. Other Teaching Experience

- *The Evolution of Advanced Networking Services: From the ARPAnet to Internet2*, Instructor, Summer 2001. Short course taught at Escuela de Ciencias Informatica (ECI) sponsored by the Universidad de Buenos Aires.
- *Johns Hopkins Center for Talented Youth*, Instructor, Summer 1994. CTY is a program to teach gifted high school students the fundamentals of computer science.
- *Georgia Institute of Technology*, Graduate Teaching Assistant, Sep 1994--Sep 1996. Worked as a TA for 12 quarters teaching 7 different courses (4 undergraduate and 3 graduate).

C. Ph.D. Students Advised [14 graduated]

14. Daniel Havey

Research Area: *Throughput and Delay on the Packet Switched Internet*

Date Graduated: Winter 2015

First Position: Microsoft

- Research Area: *Resource-Efficient Wireless Systems for Emerging Wireless Networks*
Date Graduated: Summer 2014
First Position: Post Doc, UIUC
12. Mike Wittie
Research Area: *Towards Sustained Scalability of Communication Networks*
Date Graduated: Summer 2011
First Position: Assistant Professor, Montana State University
 11. Allan Knight
Research Area: *Supporting Integration of Educational Technologies and Research of Their Effects on Learning*
Date Graduated: Summer 2009
First Position: Research Scientist, Citrix Online
 10. Hangjin Zhang
Research Area: *Towards Blended Learning: Educational Technology to Improve and Assess Teaching and Learning*
Date Graduated: Spring 2009
First Position: Microsoft
 9. Gayatri Swamynathan
Dissertation Title: *Towards Reliable Reputations for Distributed Applications*
Date Graduated: Spring 2008
First Position: Zynga
 8. Amit Jardosh (co-advised with E. Belding)
Dissertation Title: *Adaptive Large-Scale Wireless Networks: Measurements, Protocol Designs, and Simulation Studies*
Date Graduated: Fall 2007
First Position: Yahoo!
 7. Khaled Harras
Dissertation Title: *Protocol and Architectural Challenges in Delay and Disruption Tolerant Networks*
Date Graduated: Summer 2007
First Position: Assistant Professor, Carnegie Mellon University
 6. Krishna Ramachandran (co-advised with E. Belding)
Dissertation Title: *Design, Deployment, and Management of High-Capacity Wireless Mesh Networks*
Date Graduated: Winter 2006
First Position: Research Scientist, Citrix Online
 5. Robert Chalmers
Dissertation Title: *Improving Device Mobility with Intelligence at the Network Edge*
Date Graduated: Summer 2004
First Position: President and CEO, Limbo.net
 4. Prashant Rajvaidya
Dissertation Title: *Achieving Robust and Secure Deployment of Multicast*
Date Graduated: Spring 2004
First Position: President and CTO, Mosaic Networking
 3. Sami Rollins
Dissertation Title: *Overcoming Resource Constraints to Enable Content Exchange Applications in Next-Generation Environments*
Date Graduated: Spring 2003
First Position: Assistant Professor, Mount Holyoke College
 2. Srinivasan Jagannathan
Dissertation Title: *Multicast Tree-Based Congestion Control and Topology Management*
Date Graduated: Spring 2003
First Position: Consultant, Kelly & Associates
 1. Kamil Sarac

Date Graduated: Spring 2002
First Position: Assistant Professor, UT-Dallas

D. M.S. Students Advised (Thesis/Project Option) [19 graduated and 1 current]

20. Greg Parsons
Research Area: *Drone-Based Mesh Networks*
Date Started: Fall 2014
19. Neer Shey
Research Area: *Analyzing Content Distribution Through Opportunistic Contact for Smart Cellular Phones*
Date Graduated: Spring 2010
18. Camilla Fiorese
Research Area: *Analysis of a Pure Rate-Based Congestion Control Algorithm*
Date Graduated: Summer 2009
17. Brian Weiner
Research Area: *Multi-Socket TCP: A Simple Approach to Improve Performance of Real-Time Applications over TCP*
Date Graduated: Fall 2007
16. Avijit Sen Mazumder
Research Area: *Facilitating Robust Multicast Group Management*
Date Graduated: Fall 2005
15. Rishi Matthew
Thesis Title: *Providing Seamless Access to Multimedia Content on Heterogeneous Platforms*
Date Graduated: Summer 2004
14. Camden Ho
Research Area: *Tools and Techniques for Wireless Network Management*
Date Graduated: Spring 2004
13. Amit Jardosh (co-advised with E. Belding)
Research Area: *Realistic Environment Models for Mobile Network Evaluation*
Date Graduated: Spring 2004
12. Nitin Solanki
Research Area: *SongWand: A Wireless Barcode Scanner Using Bluetooth Technology*
Date Graduated: Winter 2004
11. Vrishali Wagle (co-advised with E. Belding)
Research Area: *An Ontology-Based Service Discovery Mechanism*
Date Graduated: Winter 2004
10. Uday Mohan
Thesis Title: *Scalable Service Discovery in Mobile Ad hoc Networks*
Date Graduated: Spring 2003
9. Krishna Ramachandran
Thesis Title: *Ubiquitous Multicast*
Date Graduated: Spring 2003
8. John Slonaker
Thesis Title: *Inductive Loop Signature Acquisition Techniques*
Date Graduated: Spring 2002
7. Mohammad Battah
Thesis Title: *Dedicated Short-Range Communications Intelligent Transportation Systems Protocol (DSRC-ITS)*
Date Graduated: Spring 2002
6. Kevin Vogel

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