

Curriculum Vitae

Raheem A. Beyah
Department of Computer Science
Georgia State University
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Group Web page: <http://www.cs.gsu.edu/cap>

Education

Ph.D. in Electrical and Computer Engineering, Georgia Institute of Technology
Atlanta, GA, August 2003

- Research areas: Network Security, Wireless Networks, Traffic Characterization
- Minor in Computer Science
- Ph.D. thesis: “A Deployable Framework for Providing Better Than Best-Effort Quality of Service for Traffic Flows” supervised by Dr. John A. Copeland and Dr. Raghupathy Sivakumar

Master of Science in Electrical and Computer Engineering, Georgia Institute of Technology
Atlanta, GA, August 1999

- Minor in Computer Science

Bachelor of Science in Electrical Engineering, North Carolina Agricultural and Technical State University
Greensboro, NC, May 1998

- Graduated *Summa Cum Laude*

Appointments

Adjunct Professor, School of Electrical and Computer Engineering, *Georgia Tech*, April 2006 – Present

Assistant Professor, Department of Computer Science, *Georgia State University*, August 2005 – Present

Research Engineer II, School of Electrical and Computer Engineering, *Georgia Tech*, August 2004 – August 2005

FACES/AGEP Coordinator, School of Electrical and Computer Engineering, *Georgia Tech*, August 2004 – August 2005

Part-time Instructor, Department of Computer Science, *Georgia State University*, August 2004 – December 2004

Research Engineer I, School of Electrical and Computer Engineering, *Georgia Tech*, August 2001 – August 2004

Graduate Research Assistant, School of Electrical and Computer Engineering, *Georgia Tech*, January 2001 – August 2001

Graduate Teaching Assistant, School of Electrical and Computer Engineering, *Georgia Tech*, August 2000 – December 2000

Graduate Teaching Assistant, College of Computing, *Georgia Tech*, June 1999 – August 1999

Consultant, Global TIS – Network Solutions Group, *Andersen Consulting (now Accenture)*, March 2000 – August 2000

Experienced Analyst, Global TIS – Network Solutions Group, *Andersen Consulting (now Accenture)*, May 1998 – March 2000

Consultant, Atlanta Public Schools Technology Specialist, *Douglass High School*, September 1998 – May 1999

Undergraduate Research Assistant, Department of Electrical Engineering, *North Carolina A&T State University*, September 1997 – May 1998

Teaching Assistant, Department of Mechanical Engineering, *North Carolina A&T State University*, September 1997 – May 1998

Summer Intern, Global TIS – Network Solutions Group, *Andersen Consulting (now Accenture)*, May 1997 – August 1997

Summer Intern, Global TIS – Network Solutions Group, *Andersen Consulting (now Accenture)*, May 1996 – August 1996

Summer Intern, *Iterated Systems*, May 1995 – August 1995

Sponsored Research Projects

CAREER: A Networking Approach to Host-based Intrusion Detection, Sponsor: *National Science Foundation*

Characterizing Errors in IPTV Traffic Over DSL Links, Sponsor: *Cisco/Georgia Tech*

RNCS Monitoring System (extension), Sponsor: *Cisco/Georgia Tech/Georgia Research Alliance*

RNCS Monitoring System, Sponsor: *Cisco/Georgia Tech*

Career Initiation Grant, Sponsor: *Georgia Tech*

Publications

Journal Articles

- [1] Yingshu Li, Chunyu Ai, Chin T. Vu, Yi Pan and Raheem Beyah, “Delay Bounded and Energy Efficient Composite Event Monitoring in Heterogeneous Wireless Sensor Networks.” To appear in the *IEEE Transactions on Parallel and Distributed Systems*.
- [2] Yingshu Li, Chunyu Ai, Zhipeng Cai, and Raheem Beyah. “Sensor Scheduling for p-Percent Coverage in Wireless Sensor Networks.” To appear in the *Journal of Cluster Computing - Special Issue on Algorithm and Distributed Computing in Wireless Sensor Networks*.

- [3] Bongkyoung Kwon, Raheem A. Beyah, and John A. Copeland. "Key Challenges in Securing WiMAX Mesh Networks." To appear in the *Security and Communication Networks Journal (Wiley) - Special Issue on WiMAX Security and Applications*. (Invited)
- [4] Reed Newman and Raheem Beyah. "On the Performance of Using Covert Timing Channels for Node Authentication." To appear in the *Security and Communication Networks Journal (Wiley)*.
- [5] Chunyu Ai, Hailong Hou, Yingshu Li, and Raheem Beyah. "Authentic Delay Bounded Event Detection in Heterogeneous Wireless Sensor Networks." To appear in the *Ad Hoc Networks Journal (Elsevier)*.
- [6] Lanier Watkins, Cherita Corbett, and Raheem Beyah. "Using Link RTT to Passively Detect Unapproved Wireless Nodes." To appear in the *International Journal of Security and Networks*, Vol. 4., Nos. 1/2, 2009.
- [7] Cherita Corbett, Raheem Beyah, and John Copeland. "Passive Classification of Wireless NICs during Active Scanning." In the *International Journal of Information Security*, Vol. 7., No. 5, pp. 335-348, September 2008.
- [8] Cherita Corbett, Raheem Beyah, and John Copeland. "Passive Classification of Wireless NICs during Rate Switching." In the *EURASIP Journal on Wireless Communications and Networking*, Vol. 2008, Article ID 495070, 12 pages, 2008. doi:10.1155/2008/495070.
- [9] Raheem Beyah, Raghupathy Sivakumar, and John Copeland. "GALO: A Deployable Technique for Providing Quality of Service." In the *Journal of Interconnection Networks*, Vol 7., No. 3, pp. 319-351, September 2006.

Book

- [10] Raheem Beyah, Janise McNair, and Cherita Corbett (book editors), *Security in Ad Hoc and Sensor Networks*, World Scientific Publishing, Inc. In Press.

Book Chapters

- [11] Cherita Corbett, Raheem Beyah, and John Copeland, *Securing Wireless Networks using Device Type Identification*, In *Security in Distributed and Networking Systems*, (edited by Y. Xiao, and Y. Pan), World Scientific, 2007.
- [12] Cherita Corbett, Raheem Beyah, and John Copeland, *A Passive Approach to Unauthorized Sensor Node Identification*, In *Wireless Sensor Networks and Applications*, (edited by Y. Li, M. Thai, and W. Wu), Chapter 17, Springer, 2005.

Refereed Conference / Workshop Papers

- [13] Aravind Venkataraman and Raheem Beyah. "Rogue Access Point Detection Using Innate Characteristics of the 802.11 MAC". To appear in the Proceedings of *International ICST Conference on Security and Privacy in Communication Networks (SecureComm)*, September 2009.
- [14] Xuan Chaoting, John Copeland, and Raheem Beyah. "Toward Revealing Kernel Malware Behavior in Virtual Execution Environments." To appear in the Proceedings of *International Symposium on Recent Advances in Intrusion Detection (RAID)*, September 2009.

- [15] Xuan Chaoting, John Copeland, and Raheem Beyah. "Shepherding Loadable Kernel Module through On-demand Emulation." To appear in the Proceedings of *SIG SIDAR Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA)*, July 2009.
- [16] Telvis Calhoun, Reed Newman, and Raheem Beyah. "Authentication in 802.11 LANs using a Covert Side Channel." To appear in the Proceedings of *IEEE International Conference on Communications (ICC)*, June 2009.
- [17] Hailong Hou, Yan Chen, Raheem Beyah, and Yanqing Zhang. "Filtering Spam by Using Factors Hyperbolic Trees." In the Proceedings of *IEEE Global Communications Conference (GLOBECOM)*, December 2008.
- [18] A. Selcuk Uluogac, Christopher P. Lee, Raheem A. Beyah, and John A. Copeland. "Designing Secure Protocols for Wireless Sensor Networks." In the Proceedings of *International Conference on Wireless Algorithms, Systems and Applications (WASA)*, October 2008. - also published in LNCS, Vol. 5258, pp. 503-514, 2008.
- [19] Reed Newman and Raheem Beyah. "A Performance Analysis of Authentication Using Covert Timing Channels." In the Proceedings of *IFIP/TC6 NETWORKING (NETWORKING)*, May 2008. - also published in LNCS, Vol. 4982, pp. 149-161, 2008.
- [20] Kulsoom Abdullah, Greg Conti, and Raheem Beyah. "A Visualization Framework for Self-monitoring of Web-based Information Disclosure." In the Proceedings of *IEEE International Conference on Communications (ICC)*, May 2008.
- [21] Lanier Watkins, Raheem Beyah, and Cherita Corbett. "Passive Identification of Under Utilized CPUs in High Performance Cluster Grid Networks." In the Proceedings of *IEEE International Conference on Communications (ICC)*, May 2008.
- [22] Hailong Hou, Cherita Corbett, Yingshu LI, and Raheem Beyah. "Dynamic Energy-based Encoding and Filtering in Sensor Networks." In the Proceedings of *IEEE Military Communications Conference (MILCOM)*, October 2007.
- [23] Lanier Watkins, Raheem Beyah, and Cherita Corbett. "Using Network Traffic to Passively Detect Under Utilized Resources in High-Performance Cluster Grid Computing Environments." In the Proceedings of *ACM International Conference on Networks for Grid Applications (GRIDNETS)*, October 2007.
- [24] Lanier Watkins, Raheem Beyah, and Cherita Corbett. "A Passive Approach to Rogue Access Point Detection." In the Proceedings of *IEEE Global Communications Conference (GLOBECOM)*, December 2007.
- [25] Chinh Vu, Raheem Beyah, and Yingshu Li. "A Composite Event Detection in Wireless Sensor Networks." In the Proceedings of *IEEE International Performance Computing and Communications Conference (IPCCC)*, April 2007.
- [26] Vaibhav Gupta, Raheem Beyah, and Cherita Corbett. "A Characterization of Wireless NIC Active Scanning Algorithms." In the Proceedings of *IEEE Wireless Communications and Networking Conference (WCNC)*, March 2007.

- [27] Cherita Corbett, Raheem Beyah, and John Copeland. "Using Active Scanning to Identify Wireless NICs." In the Proceedings of *IEEE Information Assurance Workshop (IAW)*, June 2006.
- [28] Raheem Beyah, Cherita Corbett, and John Copeland. "The Case for Collaborative Distributed Wireless Intrusion Detection Systems." In the Proceedings of *IEEE International Conference on Granular Computing (GrC)*, May 2006.
- [29] Cherita Corbett, Raheem Beyah, and John Copeland. "A Passive Approach to Wireless NIC Identification." In the Proceedings of *IEEE International Conference on Communications (ICC)*, June 2006.
- [30] Chris Lee, Jason Trost, Nicholas Gibbs, Raheem Beyah, and John Copeland. "Visual Firewall: Real-time Network Security Monitor." In the Proceedings of *IEEE Workshop on Visualization for Computer Security (VizSEC)*, October 2005.
- [31] Raheem Beyah, Shantanu Kangude, George Yu, Brian Strickland, and John Copeland. "Rogue Access Point Detection using Traffic Characteristics." In the Proceedings of *IEEE Global Communications Conference (GLOBECOM)*, December 2004.
- [32] Raheem Beyah, Raghupathy Sivakumar, and John Copeland. "Application Layer Switching: A Deployable Technique for Providing Quality of Service." In the Proceedings of *IEEE Global Communications Conference (GLOBECOM)*, December 2003.
- [33] Raheem Beyah, Raghupathy Sivakumar, and John Copeland. "Application Layer Striping: A Deployable Technique for Providing Quality of Service." In the Proceedings of *IEEE International Workshop on IP Operations and Management (IPOM)*, October 2003.
- [34] Jian Liu, Raheem Beyah, and John Copeland. "Implementation of an Efficient Transport Scheme for Real-Time Game Applications on HFC Cable Networks". In the Proceedings of *IEEE International Conference on Communications (ICC)*, May 2003.
- [35] Raheem Beyah, Corey S. Turner, Cherita Corbett, and John Copeland. "A Mobility Enhancement for Switched Wireless Ethernet with Soft Handoff." In the Proceedings of *IEEE International Midwest Symposium on Circuits and Systems (MWSCAS)*, August 2002.
- [36] Raheem Beyah, Mike Holloway, and John Copeland. "Invisible Trojan: A Design and Implementation." In the Proceedings of *IEEE International Midwest Symposium on Circuits and Systems (MWSCAS)*, August 2002.

Refereed Presentations

- [1] Raheem Beyah, Mike Holloway, and John Copeland. "Invisible Trojan: A Design, Implementation, and Detection Method." *INFOTEC2002*, April 2002.

Technical Reports

- [1] Jian Liu, Raheem Beyah, and John Copeland. "Data Analysis for Kodak Photo Application on a Digital Cable System", October 2001. Scientific Atlanta. PROPRIETARY
- [2] Min Kim, Raheem Beyah, and John Copeland. "Performance Analysis of a Cable System Out-of-band Channel". November 2002. Scientific Atlanta. PROPRIETARY

- [3] Jian Liu, Raheem Beyah, and John Copeland. “An Upstream Channel Traffic Simulation for Interactive Game Application on Cable Network”. April 2002. Scientific Atlanta. PROPRIETARY
- [4] Min Kim, Raheem Beyah, and John Copeland. “Performance Analysis of a Cable System In-band Channel”. April 2002. Scientific Atlanta. PROPRIETARY
- [5] Jian Liu, Raheem Beyah, and John Copeland. “Design and Simulation on Reliable UDP”. May 2002. Scientific Atlanta. PROPRIETARY
- [6] Kulsoom Abdullah, Raheem Beyah, and John Copeland. “UDP Traffic Simulation and Results”. May 2002. Scientific Atlanta. PROPRIETARY
- [7] Raheem Beyah, Raghupathy Sivakumar, and John Copeland. “A Measurement-based Study of End-to-End Internet Traffic Dynamics.”

Honors and Awards

Institute of Electrical and Electronic Engineers (IEEE)

- Elevated to Sr. Member, April 2009

National Science Foundation

- CAREER Award (2009-2014)

Outstanding Atlanta

- November 2007

Atlanta Business Chronicle

Up & Comers 40 Under 40

- October 2007

Georgia Trend Magazine

40 Best and Brightest under 40

- October 2006

Georgia State University

Faculty Mentored Grant

- Awarded April 2006

Who’s Who in Black Atlanta

- Awarded December 2005

Georgia Institute of Technology

FACES Career Initiation Grant

- Awarded April 2005

IBM Fellowship

IBM FOCUS Fellowship

- Awarded April 2002

Georgia Institute of Technology

Graduate Wireless Networks Course – Best Student Award

- Awarded April 1999

Georgia Institute of Technology

GEM Fellowship

- Awarded April 1998

North Carolina A&T State University

Eta Kappa Nu Electrical Engineering Honor Society

- Awarded March 1997

North Carolina A&T State University

Tau Beta Pi National Engineering Honor Society

- Awarded April 1996

North Carolina A&T State University

Golden Key National Honor Society

- Awarded April 1996

North Carolina A&T State University

NASA-STDP Scholarship

- Awarded April 1996

North Carolina A&T State University

Alpha Lambda Delta Honor Society

- Awarded April 1996

North Carolina A&T State University

NACME Scholarship

- Awarded April 1996

Professional Affiliations / Activities

Editorships

- **Guest Editor**, ACM Mobile Network (MONET) Journal, Special Issue on New Advances In Testbeds and Research Infrastructures for the Development of Networks, 2009
- **Associate Editor**, Journal of Computer Systems, Networks, and Communications, September 2008 - Present
- **Associate Editor**, *Wiley* Wireless Communications and Mobile Computing Journal, February 2008 – Present
- **Associate Editor**, *Wiley* Security and Communication Networks Journal, August 2007 – Present

Conference Organizing Committees

- **Symposium Co-Chair**, Computer and Network Security Symposium, ACM International Wireless Communications and Mobile Computing Conference (IWCMC), 2009, 2010
- **Program Co-Chair**, IEEE/ICST International Conference on Testbeds and Research Infrastructures for the Development of Networks & Communities (TridentCom), 2008
- **Session Chair**, IFIP Networking (NETWORKING), 2007
- **Demo Co-Chair, Session Chair**, IEEE/ICST International Conference on Testbeds and Research Infrastructures for the Development of Networks & Communities (TridentCom), 2007
- **Session Chair**, IEEE Systems, Man and Cybernetics Society Information Assurance Workshop (IAW), 2006

- **Session Chair**, Special Session on Computer Security and Data Privacy, IEEE International Conference on Granular Computing (GrC), 2006

Technical Program Committee Memberships

- International ICST Conference on Security and Privacy in Communication Networks (SecureComm), 2007, 2010
- IEEE International Conference on Communications (ICC), 2006 - 2010
- IEEE Global Communications Conference (Globecom), 2005 - 2010
- International ICST Workshop on Security in Emerging Wireless Communication and Networking Systems (SEWCN) in conjunction with the International ICST Conference on Security and Privacy in Communication Networks (SecureComm), 2009
- IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS), 2009
- ACM International Workshop on Foundations of Wireless Ad Hoc and Sensor Networking and Computing (FOWANC 2009) in conjunction with the International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2009
- IEEE International Workshop on Sensor Networks and Systems for Pervasive Computing (PerSeNS), 2009
- IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), 2008, 2009
- IEEE Conference on Distributed Computing Systems (ICDCS), 2008
- IEEE International Conference on Computer Communications and Networks (ICCCN), 2008
- International Conference on Algorithms, Systems, and Applications of Wireless Networks (WASA), 2008
- International Conference on Communications and Networking in China (CHINACOM), 2008
- IEEE International Workshop on Wireless Security and Privacy (WiSP) in conjunction with the IEEE Conference on Distributed Computing Systems (ICDCS), 2008
- IFIP Networking (NETWORKING), 2007, 2008
- IEEE Wireless Communications & Networking Conference (WCNC), 2007, 2008
- ACM International Wireless Communications and Mobile Computing Conference (IWCMC), 2007, 2008
- ACM International Workshop on Performance Monitoring, Measurement, and Evaluation of Heterogeneous Wireless and Wired Networks (PM2HW2N) in conjunction with the ACM International Symposium on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM), 2007
- IEEE Systems, Man and Cybernetics Society Information Assurance Workshop (IAW), 2006, 2007
- International Workshop on Self-Assembling Wireless Networks (SAWN), 2007
- IEEE International Symposium on Dependable, Autonomic and Secure Computing (DASC), 2006, 2007
- IEEE International Conference on Broadband Communications, Networks, and Systems (Broadnets), 2006

Referee service for Journals

- IEEE Transactions on Parallel and Distributed Systems, 2009
- IEEE Transactions on Mobile Computing, 2004, 2005, 2009
- Elsevier Computer Communications, 2009
- IEEE Journal on Selected Areas in Communication, 2008
- IEEE Transactions on Vehicular Technology, 2005, 2006, 2007
- International Journal of Computers and Applications, 2007
- International Journal of Network Security, 2005, 2006, 2007
- Wireless Communications and Mobile Computing Journal, 2007
- IEEE Transactions on Wireless Communications, 2006
- EURASIP Journal on Wireless Communications and Networking: Special Issue on Wireless Security, 2005

Referee service for Conferences

- IEEE Military Communications Conference (Milcom), 2007, 2008, 2009
- IEEE International Conference on Communications (ICC), 2003

Association for Computing Machinery (ACM)

- Member since 2000

Institute of Electrical and Electronic Engineers (IEEE)

- Sr. Member 2009 - Present
- Member 1998 - 2009
- Computer Society
- Communications Society

National Society of Black Engineers (NSBE)

- Member since 1998

Invited Talks

- University of Central Florida, Distinguished EECS Seminar Series, “Authentic Delay Bounded Event Detection in Heterogeneous Wireless Sensor Networks”, March 20, 2008
- National Security Agency’s Secure Mobility Forum, November 15, 2006
- IEEE Symposium on Reliable and Distributed Systems panel on Wireless and Mobile Security for Distributed Systems - (Panelist), October 27, 2005
- City of Atlanta Mayor’s Technology Summit, 2004

Review Panels

- National Science Foundation, CISE REU, October 2008
- National Science Foundation, CyberTrust, June 2008
- Department of Energy – High-speed Security/Networking - Phase I – SBIR/STTR, February 2008
- Department of Energy – High-speed Security/Networking - Phase II – SBIR/STTR, June 2007
- National Science Foundation – NeTS, May 2006
- National Science Foundation – Wireless Networking, July 2006
- Department of Energy – High-speed Security/Networking, Phase I – SBIR/STTR, June 2006

Courses Taught (**denotes courses developed*)

CSc 4225/6225 Internetwork Programming* (Fall 2006, 2007) – supersedes (CSc 4360/6360 Network-Oriented Software Development (Fall 2004, 2005))

This course provides students with an understanding of the Internet and details regarding the protocols used in the Internet. The students will also learn key components of network programming using the most-widely used application program interface, sockets. Topics to be covered include: Internet Protocol (IP), Transport Layer Protocol-Transmission Control Protocol (TCP), Transport Layer Protocol-User Datagram Protocol (UDP), and Unix/Linux Network Programming.

CSc 8222 Network Security* (Spring 2008, 2009) – supersedes CSc 8980 Network Security (Spring 2007)

This course provides students with a detailed understanding of the fundamentals of network security. Significant focus will be placed on the five phases of network attacks: reconnaissance, scanning, gaining access/denial of service, maintaining access, and covering tracks. Topics to be covered include: Web security, Security standards-SSL/TLS and SET, Intruders and viruses, PGP

and S/MIME for electronic mail security, Firewalls, IDS Secret Key and Public/Private Key Cryptography, Cryptographic Hashes and Message Digests, Authentication Systems (Kerberos), Digital signatures and certificates, Kerberos and X.509v3 digital certificates. Also, current network security publications will be surveyed.

CSc 2510 Theoretical Foundations of Computer Science (Fall 2008)

This course covers the basic theoretical foundations required to study various sub-disciplines in computer science. Topics include: propositional and predicate logic with applications to logic programming, database querying, and program verification; induction and its application in proving correctness and termination of programs; recurrence relations, combinatorics, and graph theory with applications to analysis of algorithms; sets, relations, and functions and their applications in databases, functional programming, and automata.

CSc 4220/6220 Computer Networks (Spring 2006)

Introduction to computer networks; details of layered network protocols with emphasis on functionality and analysis. Principles of relevant state-of-the-art network standards.

Department / University / Board of Regents Service

Graduate Admissions Committee

- Member, August 2005 - Present

Undergraduate Curriculum Committee

- Member, May 2007 - Present

Ph.D. Qualifying Exam Committee

- Chair, Networking Exam Subcommittee, August 2005 – Present
- Member, Computer Architecture Exam Subcommittee, August 2005 – August 2006

Ph.D. Committee Service

<u>Institution</u>	<u>Name</u>	<u>Advisor</u>	<u>Role</u>	<u>Date</u>
Georgia State	Xiaoyuan Suo	Ying Zhu	Member, Ph.D. Committee	July 15, 2009
Georgia Tech	Ramanuja Vedantham	Raghupathy Sivakumar	Member, Ph.D. Defense Committee	August 14, 2006
Georgia Tech	Jin Tang	John Copeland	Member, Ph.D. Defense Committee	June 26, 2006

M.S. Committee Service

<u>Institution</u>	<u>Name</u>	<u>Advisor</u>	<u>Role</u>	<u>Date</u>
Georgia State	Yichuan Wang	XiaoJun Cao	Member, MS Defense Committee	April 10, 2009
Georgia State	Marco Valero Rangel	Raheem Beyah and Anu Bourgeois	Co-Chair, MS Defense Committee	April 8, 2009
Georgia State	Telvis Calhoun	Raheem Beyah	Chair, MS Defense Committee	March 23, 2009

Georgia State	Aravind Venkataraman	Raheem Beyah	Chair, MS Defense Committee	November 20, 2008
Georgia State	Reed Newman	Raheem Beyah	Chair, MS Defense Committee	April 18, 2008
Georgia State	Aung Aung	Sushil Prasad	Member, MS Defense Committee	April 20, 2007
Georgia State	Alexander Ribadeneira	Anu Bourgeois	Member, MS Defense Committee	April 16, 2007
Georgia State	Vaibhav Gupta	Raheem Beyah	Chair, MS Defense Committee	November 16, 2006
Georgia State	Xiaoyuan Sou	Ying Zhu	Member, MS Defense Committee	July 13, 2006
Georgia State	Rawiroj Robert Kasemsri	Ying Zhu	Member, MS Defense Committee	November 17, 2005

M.S. Project Committee Service

<u>Institution</u>	<u>Name</u>	<u>Advisor</u>	<u>Role</u>	<u>Date</u>
Georgia State	Shan Bai	Yingshu Li	Member, MS Project Defense Committee	April 8, 2009
Georgia State	Arlington Wilson	Raheem Beyah	Chair, MS Project Defense Committee	December 8, 2006

Civic Activities / Service

KIPP WAYS Academy

- Advisory Board, Vice Chair, January 2009 - Present
- Board of Directors, Member, October 2007 – December 2008

L.E.A.D Atlanta Opening Retreat Organizing Committee, June 2007 – August 2007

Georgia State University Chapter of the National Society of Black Engineers (NSBE)

- Charter Faculty Advisor, June 2006 – December 2008

Aid to children with Imprisoned Mothers (AIM) Community Service Award

- Awarded March 2007

L.E.A.D. Atlanta, Class of 2007

United Way Volunteer Involvement Program (V.I.P.), Class of 2005 (Spring)

Westlake High School, Atlanta Georgia

- Science and math fair judge - January 2004

Georgia Tech Summer Undergraduate Research in Engineering (SURE)

- Faculty advisor – Summer 2003, Summer 2004, Summer 2005, Summer 2006
- Student mentor – Summer 2001, Summer 2002

Douglass High School, Atlanta Georgia

- Tutor 1996 – 2004

Clara Muhammad High School, Atlanta Georgia

- Tutor 2002 – 2004

Citizenship

- United States

Security Clearance

- United States – Top Secret