

## Education

- **2009** PhD, Computer Science, *Arizona State University*, Tempe, Arizona
- **2003** Bachelor of Science, Computer Science, *Arizona State University*, Tempe, Arizona.
  - Magna Cum Laude
- **1999** Associate of Arts, *Phoenix College*, Phoenix, Arizona.
- **Merits**
  - AT&T Labs Fellowship Program (Graduate)
  - National Science Foundation (NSF) Collaborative (Undergraduate)
  - Interdisciplinary Research Community (CIRC) Scholar (Undergraduate)
  - Dean's Lists (Undergraduate)

## Academic Experience

- 2006-Current, **Lecturer**, School of Computing, Informatics and Decision Systems Engineering, School of Letters and Sciences, *Arizona State University*, Tempe, Arizona.
- 2003-2006, **Assistant Director**, Information and Systems Assurance Laboratory, Industrial Engineering Department, *Arizona State University*, Tempe, Arizona.
- 2003, **Research Intern**, *AT&T Labs--Research*, Florham Park, New Jersey.
- 2001-2003, **Research Assistant**, Industrial Engineering Department, *Arizona State University*, Tempe, Arizona.

## Academic Service

- Academic Unit Committees
  - Freshman Teaching Academy, Fulton School of Engineering, *August 2009-Present*
  - School of Letters and Sciences: Academic Standards Committee, *December 2008-Present*
  - School of Computing and Informatics: Informatics Undergraduate Programs Committee, *2008*
- Academic Unit Service
  - Informatics curriculum and degree program development, *2008-Current*
  - E<sup>2</sup> Camp Volunteer, *August 2009*
  - Academic Transfer CS/CIS Articulation Task Force, Dine College, *October 2008*
  - Academic Transfer CS/CIS Articulation Task Force, Cochise College, *April 2008*
- University Service
  - Obama Scholars Mentor *2009-2010*
  - University Admissions Session in Wisconsin, *March 2008*
  - University Admissions Session in Nevada, *February 2008*

## Grants

- **Award:** \$51,763  
Grant: The Learner-Centered Education Course Redesign Initiative  
Sponsor: Arizona Board of Regents

## Publications

1. T. Farley and C. Colbourn, "Multiterminal Measures for Network Reliability and Resilience," *Design of Reliability Communication Networks (DRCN 2009)*. In press.

2. K. Butler, T. Farley, P. McDaniel, and J. Rexford, "A Survey of BGP Security Issues and Solutions," *Proceedings of the IEEE*. In press.
3. T. Farley and C. Colbourn, "Multi-Terminal Network Connectedness on Series-Parallel Networks," *Discrete Mathematics, Algorithms And Applications*, 1:2, 2009, pp. 253-265.
4. N. Ye, X. Li, T. Farley, and X. Xu "Job Scheduling Methods for Reducing Waiting Time Variance," *Computers and Operations Research*, 34:10, October 2007, pp. 3069-3083.
5. T. Farley and C. Colbourn, "Multiterminal Resilience for Series-Parallel Networks," *Networks*, 50:2, September 2007, pp. 164-172.
6. N. Ye, T. Farley X. Li and H. Bashettihalli, "Batch Scheduled Admission Control for Computer and Network Systems," *Information, Knowledge, Systems Management*, 5:4, 2006, pp. 211-226.
7. N. Ye, T. Farley and D. Lakshminarasimhan, "An Attack-Norm Separation Approach for Detecting Cyber Attacks," *Information Systems Frontiers*, 8:3, July 2006, pp. 163-177.
8. N. Ye and T. Farley, "Information Sharing and Control in Homogeneous and Heterogeneous Supply Networks," *Int'l Journal of Modelling and Simulation*, 26:2, 2006.
9. N. Ye, C. Newman, and T. Farley, "A System-Fault-Risk Framework for Cyber Attack Classification and Profiling," *Information, Knowledge, Systems Management*, 5:2, 2005-2006, pp. 135-151.
10. T. Farley and J. Joseph, "Intrusion Detection," *Encyclopedia of Cryptography and Security*. van Tilborg, Henk C.A. (Ed.), Springer, 2005.
11. N. Ye and T. Farley, "A Scientific Approach to Cyberattack Detection," *IEEE Computer*, 38:11, November 2005, pp.55-61.
12. N. Ye, Z. Yang, Y-C. Lai and T. Farley, "Enhancing router QoS through job scheduling with weighted shortest processing time-adjusted," *Computers and Operations Research*, 32:9, Sept 2005, pp. 2255-2269.
13. N. Ye, E.S. Gel, X. Li, T. Farley and Y-C. Lai, "Web server QoS models: applying scheduling rules from production planning," *Computers and Operations Research*, 32:5, May 2005, pp. 1147-1164.
14. N. Ye, B. Harish and T. Farley, "Attack Profiles to Derive Data Observations, Features, and Characteristics of Cyber Attacks," *Information, Knowledge, Systems Management*, 5:1, Jan 2005, pp. 23-47.
15. N. Ye, T. Farley and D. Aswath, "Data Measures and Collection Points to Detect Traffic Condition Changes on Large-Scale Computer Networks," *Information, Knowledge, Systems Management*, 4:4, Dec 2004, pp. 215-224.
16. K. Butler, T. Farley and P. McDaniel, "A Survey of BGP Security Issues and Solutions", Technical Report TD-5UGJ33, *AT&T Labs - Research*, Florham Park, NJ, February 2004. (revised June 2004).
17. Y. Chen, T. Farley and N. Ye, "Qos Requirements of Network Applications on the Internet," *Information, Knowledge, and Systems Management*, 4:1, Jan 2004, pp. 55-76.
18. N. Ye, Y.C. Lai and T. Farley, "Dependable Information Infrastructures as Complex Adaptive Systems," *Systems Engineering*, 6:4, 2003, pp. 225-237.
19. N. Ye, Y. Chen, and T. Farley, "Qos Requirements Of Multimedia Data On Computer Networks," *Proceedings of the 2nd Int'l Conf on Active Media Technology (ICAMT)*, 2003, pp. 183-189.
20. N. Ye, X. Li, and T. Farley, "A data mining technique for discovering distinct patterns of hand signs: Implications in User Training and Computer Interface Design," *Ergonomics*, 46(1-3), 2003, pp. 188-196.

## Teaching Related Activities

- **Courses Taught (\* Designed/developed course)**
  - \* CPI101 Introduction to Informatics
  - \* CPI200 Mathematical Foundations of Informatics
  - \* CPI310 Information and Data Management
  - \* CPI420 Technology and Society
  - \* CSE180 Computer Literacy

- CSE110 Principles of Programming w/ Java
- CSE100 Principles of Programming w/ C++
- CSE340 Principles of Programming Languages
- CSE355 Intro to Theoretical Computer Science
- CSE434 Computer Networks
- CSE185 Internet & WWW
- MAT142 College Mathematics
- **Extended Teaching**
  - Study Abroad course and Internship in Cape Town, South Africa, Summer 2009
- **Recent Evaluations (on a 5.0 scale)**

Semester/Year	Course Title	Course Eval	Instructor Eval
Fall 2008	CPI101	4.69	4.72
	CPI101	4.38	4.44
	CPI420	4.69	4.81
	CSE180	4.42	4.67
Spring 2009	CPI101	4.45	4.67
	CPI310	4.51	4.89

## Research Related Activities

- **Presentations**
  - The Redesign Alliance Third Annual Conference, Orlando, Florida, March 22-24, 2009
  - Learner-Centered Education Course Redesign Initiative Workshop III, Arizona State University West Campus, June 18, 2008.
  - The Redesign Alliance Second Annual Conference, Orlando, Florida, March 17, 2008
  - Discrete Mathematics and Algorithms Seminar, Tempe, Arizona, February 17, 2006.
  - Numerous Principal Investigator meetings from 2001 to 2005 with the Air Force Research Laboratory (AFRL), Air Force Office of Scientific Research (AFOSR), Advanced Research and Development Activity (ARDA), and Defense Advanced Research Projects Agency (DARPA).
- **Papers Refereed**
  - IEEE Transactions on Parallel and Distributed Systems
  - IEEE Computer
  - Handbook of Computer Networks
  - Neurocomputing
  - International Journal of Security and Networks
  - The Handbook of Information Security, John Wiley & Sons, Inc.
  - The Handbook of Data Mining, Lawrence Erlbaum Associates, Inc.
  - 5th Annual IEEE Information Assurance Workshop
- **Patent Application**
  - N. Ye, X. Li, T. Farley and H. Bashettihalli. Job Scheduling Techniques to Reduce the Variance of Waiting Time. United States Patent Application 20040237087
- **Acknowledgements**
  - The Handbook of Data Mining, Lawrence Erlbaum Associates, Inc.
  - R.K.Singh, H.S. Sarjoughian and G.W. Godding, "Design of Scalable Simulation Models for Semiconductor Manufacturing Processes", SCSC, July, 2004, San Jose, CA.
- **Other contributions**
  - Feature contribution in CRA-W April 2007 newsletter, "Alum News"
  - Newspaper Article: T. Farley, "Symantec provides grant to support Internet security research at ASU," *ASU Insight*, Vol.23, No.36, May, 2003.

## Professional development

- **Workshops**

- Sloan International Symposium 2008 - Emerging Technology Applications for Online Learning, Carefree, Arizona, May 7-9, 2008.
- Learner-Centered Education Course Redesign Initiative Workshop II, Arizona State University West Campus, April 25, 2007.
- Teaching Object-Oriented Programming In a Java-based Course by David Gries, Arizona State University Tempe Campus, March 12, 2007.
- Learner-Centered Education Course Redesign Initiative Workshop I, Arizona State University, February 21, 1007.
- 2005 CRA-W Graduate Cohort Workshop
- 2004 CRA-W Gradudate Cohort Workshop

- **Studies**

- Studied under mentor David Johnson at AT&T Labs--Research, Florham Park, New Jersey, August 2007

- **Prior Experience**

- 1998-2001 **Self employed**: computing, accounting and small business consulting. Arizona.
- 1996-1998 **Administration Manager**, Dan R. Wagnon & Associates, Third Party Health Insurance Administrator, Phoenix, Arizona.
- 1992-1996 **Accounting**, Forever Living Products International, Tempe, Arizona.
- 1990-1992 **Office Manager**, Caliber Construction, Phoenix, Arizona.