LUAY A WAHSHEH

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EDUCATION

- **Doctor of Philosophy (Ph.D.) in Computer Science**
  August 2008 (GPA: 4.0/4.0)
  University of Idaho, Idaho, USA
  Research Interests: Computer Security
  Dissertation Title: "Security Policy Design and Implementation in High Assurance Computer Systems"
  Major Professor: Dr. Jim Alves-Foss
- **Master of Science (M.S.) in Computer Science**
  May 2000
  Stephen F. Austin State University, Texas, USA
- **Postgraduate Diploma (Dip.) in Computer Science**
  July 1994
  University of Essex, Colchester, United Kingdom
- **Bachelor of Science (B.S.) in Computer Science with Honors**
  February 1992
  Mutah University, Karak, Jordan

COUNTRY OF CITIZENSHIP

USA

WORK HISTORY

FACULTY EXPERIENCE

- **Assistant Professor** (January 2009 – Present), Department of Computer Science, Norfolk State University.
  Teach "CSC 372: Data Structures" and "CSC 260L: Computer Programming II Laboratory".
- **Assistant Professor** (August 2008 – December 2008), School of Information Arts and Technologies, University of Baltimore.
  Taught "COSC 433: Network Security" and "COSC 490: Practicum in Information Technology".
- **Lecturer** (July 2000 – August 2003), Department of Computer Science, Stephen F. Austin State University.
  Taught "CSC 102: Computer Science Principles", "CSC 121: Introduction to Information Processing Systems", and "CSC 101: Introduction to Computing".

OTHER EXPERIENCE

- **Research Assistant** (September 2003 – May 2008), Center for Secure and Dependable Systems, University of Idaho.
  Conducted research in computer security, with an emphasis on security policy design and implementation in high assurance computer systems. Also worked on a formal methods project using ACL2 (May 2004 – August 2005). Major Professor: Dr. Jim Alves-Foss.

- **Tutor** (August 2003 – December 2003), Computer Science Assistance Center, Department of Computer Science, University of Idaho.
  Helped students in the computer laboratory with homework in the introduction and upper-division courses.
- **Teaching Assistant** (May 1999 – May 2000), Department of Computer Science, Stephen F. Austin State University.
  Assisted a course instructor in teaching courses (titled "CSC 101: Introduction to Computing"), graded tests and homework, helped develop homework, and helped students in the computer laboratory with homework.
- **Research Assistant** (August 1998 – May 1999), Department of Computer Science, Stephen F. Austin State University.
  Designed and implemented a new computational model of series-coupled isothermal Boltzmann machines which solved combinatorial optimization problems faster than a single Boltzmann machine and more effectively than sequential simulated annealing. Major Professor: Dr. Camille C. Price.
- **Laboratory Instructor** (January 1996 – July 1998, November 1992 – September 1993), Department of Computer Science, Mutah University (military and civilian campuses).
  Taught C, Fortran, Pascal, COBOL, and BASIC laboratories using UNIX, Windows, and VMS platforms.

PUBLICATIONS

JOURNALS

1. **L. A. Wahsheh**, D. Conte de Leon, and J. Alves-Foss. Formal Verification and Visualization of Security Policies. *Journal of Computers*, 3(6):22–31, June 2008.
2. **L. A. Wahsheh** and J. Alves-Foss. Security Policy Development: Towards a Life-Cycle and Logic-Based Verification Model. *American Journal of Applied Sciences*, 5(9):1117–1126, 2008.
3. **L. A. Wahsheh** and J. Alves-Foss. Policy-Based Security for Wireless Components in High Assurance Computer Systems. *Journal of Computer Science*, 3(9):726–735, 2007.
4. **L. A. Wahsheh** and J. Alves-Foss. Specifying and Enforcing a Multi-Policy Paradigm for High Assurance Multi-Enclave Systems. *Journal of High Speed Networks*, 15(3):315–327, October 2006.

CONFERENCES/TECHNICAL REPORTS

5. **L. A. Wahsheh** and J. Alves-Foss. Using Policy Enforcement Graphs in a Separation-Based High Assurance Architecture. In *Proceedings of the IEEE International Conference on Information Reuse and Integration*, pp. 183–189, August 2007.
6. C. C. Price and **L. A. Wahsheh**. Cascaded Boltzmann Machines for Combinatorial Optimization. In *Proceedings of the 4th World Multiconference on Systemics, Cybernetics and Informatics*, pp. 312–317, July 2000.
7. C. C. Price and **L. A. Wahsheh**. Cascaded Boltzmann Machines for Combinatorial Optimization. Technical Report No. CS-99-01, Department of Computer Science, Stephen F. Austin State University, September 1999.
   This technical report is an extended version of the Systemics, Cybernetics and Informatics conference publication.

PRESENTATIONS

- "Using Policy Enforcement Graphs in a Separation-Based High Assurance Architecture", *IEEE International Conference on Information Reuse and Integration*, August 13, 2007.
- "Cascaded Boltzmann Machines for Combinatorial Optimization", *the 4th World Multiconference on Systemics, Cybernetics and Informatics*, July 26, 2000.

HONORS

- Upsilon Pi Epsilon computing sciences honor society (inductee November 1999, life-time membership). Secretary of the Stephen F. Austin State University Chapter (November 1999 – May 2000).
- British Council scholarship to study in the United Kingdom (October 1993 – July 1994).
- Ranked second of my bachelor's class of 1992 with honors (February 1992).
- Ministry of Education award: an overseas summer camp for being an honors student (Summer 1986).

ACTIVITIES

- The Applied Information Technology program curriculum and assessment committee at the University of Baltimore.
- Information Security and Privacy II session chair for the IEEE International Conference on Information Reuse and Integration in Las Vegas, Nevada (August 2007).
- University of Idaho computer science competition of the Idaho Junior Engineering, Math, and Science (JEMS) workshop (July 2005, July 2004).
  Exposed high school students to engineering problems and encouraged them to pursue engineering at the university.
- Attended the IEEE 5th International Workshop on Policies for Distributed Systems and Networks in Yorktown Heights, New York (June 2004).
- University Interscholastic League (UIL) co-director for the Computer Science Regional Contest at Stephen F. Austin State University (April 2003, April 2002).
- Showcase Saturday (2003, 2002, 2001).
  Recruited high school students for the Department of Computer Science at Stephen F. Austin State University.
- CSC 102/CSC 101/CSC 121 curriculum committee at Stephen F. Austin State University.
- Graduate Student Advisory Council representative at Stephen F. Austin State University (Fall 2000, Spring 2000, Spring 1999).
- Taught a 30-hour course for people from the local community on using computer applications and operating systems at the civilian campus of Mutah University (July 1997 – August 1997, July 1996 – August 1996, April 1993 – May 1993).
  Taught the same course for military officers at the military campus of Mutah University (January 1996 – February 1996).
- Attended a course titled "Introduction to Novell Netware" (1997).
- Member of the supervising committee of the Students Union Council's 4th period elections at Mutah University (January 1996).
- Military training at Mutah University (Summer 1989).

COMPUTER SKILLS

- Programming: C, C++, Java, Fortran, Pascal, COBOL, Prolog, SQL, Scheme, CLIPS, HTML, LaTeX, ACL2, Assembly, BASIC.
- Operating systems: UNIX, Linux, Windows, DOS, VMS, Macintosh.
- Applications: Microsoft Office, Corel WordPerfect.