Shereen Khoja

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Education

1998-2003	**Ph.D. Computer Science**, Lancaster University, Lancaster, UK. Advisor: Roger Garside. Dissertation Title: "An Arabic POS Tagger".
1997-1998	**M.Sc. Computer Science (Artificial Intelligence)**, University of Essex, Colchester, UK.
1992-1997	**B.Sc. Computer Science**, King Abdul Aziz University, Jeddah, Saudi Arabia.

Employment

Fall 2008 – present	**Associate Professor of Computer Science**, Pacific University, Forest Grove, OR.
Fall 2002 – 2008	**Assistant Professor of Computer Science**, Pacific University, Forest Grove, OR.
1991 – 2001	**Postgraduate Teaching Assistant**, Lancaster University, Lancaster, UK.
1999	**Undergraduate Project Supervisor**, Lancaster University, Lancaster, UK.

Awards

Grants and Financial Awards

April 2010	**G2CS - Girls Gather for Computer Science.** Developing a modular summer day camp to introduce girls to computer science, with female scientists and industry professionals as leaders. National Science Foundation (Shereen Khoja, PI, Co-PIs: Juliet Brosing, Jeffrey Barlow), $554,248. Peer-reviewed.
2007-2008	**Blogging in the Middle East.** Summer Institute Fellow for the Berglund Center for Internet Studies, $3,000. Peer-reviewed.
2005-2006	**An Online Part-of-Speech Tagger.** Faculty Development Grant, $2,500.
2003-2004	**Neural Network Part-of-Speech Tagger for Arabic.** Computing Research Association's Committee on the Status of Women in Computing Research (CRAW), $2,000. Peer-reviewed.

Honors

2006	**Junior Faculty Award**, Pacific University. Presented by Pacific University in recognition of outstanding service as a teacher and mentor to the students of Pacific University and for significant contributions to the academic life of their community early in their professional career.

Publications

2012   Khoja, S., Wainwright, C., Brosing, J. 2012. Changing girls' attitudes towards computer science. *Journal of Computing Sciences in College,* 28, 1 (October 2012), 210-216. Peer-reviewed.

2009   Khoja, S. 2009. An RSS Feed Analysis Application and Corpus Builder. *In Proceedings of the Second International Conference on Arabic Language Resources and Tools*, ISBN: 2-9517408-5-9. April 2009. Also appeared in Interface on the Internet, the electronic journal of the Berglund Center for Internet Studies. Peer-reviewed.

2003   Khoja, S., Garside, R., Knowles, G. 2003. An Arabic Tagset for the Morphosyntactic Tagging of Arabic. *Chapter in "A Rainbow of Corpora: Corpus Linguistics and the Languages of the World"*, edited by Andrew Wilson, Paul Rayson, and Tony McEnery; Lincom-Europa, Munich. Peer-reviewed.

2001   Khoja, S. 2001. APT: Arabic Part-of-speech Tagger. *In Proceedings of the Student Workshop at the Second Meeting of the North American Chapter of the Association for Computation Linguistics* (NAACL2001), Carnegie Mellon University, Pittsburgh, Pennsylvania. Peer-reviewed.

2001   Khoja, S., Garside, R. 2001. Automatic Tagging of an Arabic Corpus Using APT. *Paper presented at the Arabic Linguistic Symposium* (ALS), University of Utah, Salt Lake City, Utah. Peer-reviewed.

Workshops, Panels, and Talks

2013   Tenison, R., Khoja, S., Levenhagen-Seeley, J., and Harrison, P. 2013. Panel: It takes a village, but together we can make a difference*. J. Computing Sciences in Colleges.* In press.

2013   Wilson, B., Hansen, D., Bryant, R., Orr, G., Khoja, S., and Iyer, G. 2013. Panel: MOOCs and their impact on CS Education*. J. Computing Sciences in Colleges*. In press.

2012   Khoja, S., and Floyd, T. 2012. Girls Gather for Computer Science. *Presentation at the Microsoft Women's Employee Resource Groups' Employee Giving Campaign.* Redmond, Washington.

2012   Khoja, S., Floyd, T., and Brosing, J. 2012. Girls Gather for Computer Science. *Presentation to the Pacific University Board of Trustees*.

2008   Khoja, S. 2008. Advances in Arabic Computational Linguistics. *Willamette Mathematics Colloquium Presentation.* April 2008.

2008   Dake, P., Bryant, R. Khoja, S., and Orr, G. 2008. Workshop: Designing a Collaborative Cross-Campus Airport (or Other Transit) Simulation Project*. J. Computing Sciences in Colleges*, 24, 2.

2008   Richmond, G., Khoja, S., Bentley, A., and Grigoreanu, V. 2008. Panel: Erasing the Gender Border in Science. *Gender Studies Symposium at Lewis & Clark College*.

2005   Khoja, S. 2005. A Morphosyntactic Tagger for Arabic. *Pacific University Faculty Forum.* October 2005.

2003   Khoja, S. 2003. Invited Talk. Arabic Corpus Linguistics. *Talk given to Computer Science and Linguistics faculty and researchers at the University of Leeds, UK.*

Posters

2012   Khoja, S., Brosing, J., Wainwright, C., and Barlow, J. 2012. Girls gather for computer science (G2CS). *43rd ACM Technical Symposium on Computer Science Education* (SIGCSE 2012), Raleigh, NC. Peer-reviewed, published abstract.

2012   Brosing, J., and Khoja, S. 2012. Girls Gather for Computer Science. *Oregon Technology and Education Network*, Pacific University, OR. Peer-reviewed.

2012   Floyd, T., and Khoja, S. 2012. Girls Gather for Computer Science. *37th Annual Oregon Indian Education Association Conference.* Grand Ronde, OR.

Courses Taught

Introduction to Computer Science I: Programming in C++ using Visual Studio.

Introduction to Computer Science II: Object oriented programming in C++.

Data Structures: Introduction to Data Structures in C using Eclipse on Linux, Makefiles, Valgrind, and Subversion.

Algorithm Design and Analysis: Asymptotic complexity, techniques of analysis, algorithmic strategies, graph theory, and other selected topics.

Human Computer Interaction: Introduction to HCI, methods to develop and assess interfaces, interaction styles, and design considerations.

Computer Architecture: Computer arithmetic, Boolean algebra, gate networks, logic design, introduction to IA-32/64 & MIPS assembly language programming, I/O devices, pipelines instruction execution, bus structure, and microprogramming.

Software Engineering I & II: Introduction to the theory behind software development including software architecture, requirements analysis, prototyping, project management tools, verification and validation, and defect management.

Artificial Intelligence: Introduction to the field of AI including predicate calculus, state space search, knowledge representation, and robotics.

Client/Server Programming in Java: Programming in Java, multithreading networking, servlets, JavaServer pages, and remote procedure calls.

Our Digital World: Exploration of the impact and effect of the Internet on all aspects of our lives as global citizens by examining the ethical, cultural, economic, and political aspects of the Internet.

Software Tools: Introduction to software tools used to gather, manipulate, analyze, and graph data. The software covered includes Excel, SPSS, Word, and PowerPoint.

Activities and Service

Selected University Service

2008 – 2009, Spring 2011 – 2013	**Department Chair.** Mathematics and Computer Science. Pacific University.
2013	**Search Committee Chair.** Visiting Professor of Mathematics. Pacific University.
2011 – 2012	**Search Committee.** Assistant Professor of Mathematics. Pacific University.
2010 – 2011	**Search Committee.** Chief Information Officer. Pacific University.
2010 – 2011	**Search Committee.** Assistant Professor of Mathematics. Pacific University.
2008 – present	**Advisory Board Member.** Berglund Center for Internet Studies. Pacific University.
Spring 2008 – 2009	**Faculty Senate.** Pacific University.
2007 – 2008	**Search Committee.** Assistant Professor of Mathematics. Pacific University.
2007 – 2008	**Facilities Planning Committee.** Natural Sciences Division. Pacific University.
2006 – 2008	**Strategic Planning Committee.** Natural Sciences Division. Pacific University.
2005 – 2006	**Search Committee.** Assistant Professor of Mathematics. Pacific University.
2005 – 2006	**Search Committee.** Assistant Professor of Computer Science. Pacific University.

Professional Service

2013	**Conference Chair, Site Chair, Speakers Chair.** Consortium for Computing Sciences in Colleges - Northwest Region (CCSC-NW).
2012	**Papers Chair.** Consortium for Computing Sciences in Colleges - Northwest Region (CCSC-NW).
2012	**Community Committee on STEM Education.** Forest Grove, OR.
2012	**Judge.** Oregon Game Project Challenge (OGPC). http://www.ogpc.info
2011, 2012	**Judge.** Aspirations in Computing Awards, National and Regional. National Center for Women and Information Technology (NCWIT). http://ww2.ncwit.org/award/
2010	**Paper Reviewer.** Pacific Coast Philology, the journal of the Pacific Ancient and Modern Language Association.
2009	**Paper Reviewer (3 papers).** ACM Transactions on Asian Language Information Processing (TALIP), 8, 4. (December 2009).
2009	**Paper Reviewer (4 papers).** Natural Language Processing Track of the International Conference on Informatics and Systems.

Professional Experience

2002 – 2003	**Consultant**. MitoSystems Inc, Santa Monica, CA The Arabic stemmer developed for my M.Sc. degree was licensed to MitoSystems Inc. This required rewriting the stemmer in a different programming language and integrating it into their system. I also served as a consultant for the company while the software was being tested

Affiliations

Member, *Association for Computing Machinery (ACM).*

Member, *ACM Special Interest Group on Computer Science Education (ACM SIGCSE).*