http://www.cc.gatech.edu/~fatima/	_
Georgia Institute of Technology (GT) Computer Science PhD Student	Atlanta, GA
GPA 4.0, expected graduation May 2012	
	in progress
University of Pennsylvania (Penn)	Philadelphia, PA
Masters of Computer and Information Technology GPA 3.91/4.0	
GIA 5.91/1.0	May 2008
Carnegie Mellon University (CMU)	Pittsburgh, PA
BS in Electrical and Computer Engineering with an additional major in Spanish.	A must 2005
GPA: 3.57/4.0, Graduation with University Honors	August 2005
CADEMIC PROJECTS:	
Cross-Cultural Comparisons of Social Expectations of Individuals with Autism, GT	Atlanta, GA
Along with 2 other students I am exploring the expectations of social and adaptive behaviors in individuals with Autism and other intellectual disabilities in four cultures: Kuwait, Pakistan, Korea, and the United States	
We hypothesize that culture mediates the expectations society has for these individuals. Preliminary findings	
indicate that factors such as religion, culture, and socio-economic status lead to differing attitudes towards	
these individuals and the expectations parents and teachers have for them. The design of REACT will be	
greatly informed by our findings regarding differing cultural views on socially appropriate behavior.	in progress
<b>REACT – Facilitating the Authoring of Social Skills Instructional Modules,</b> GT	Atlanta, GA
I am developing an authoring tool designed to help parents, teachers, and other caregivers to create	
Refl-ex instructional modules. They will also be able to share these modules. My approach to aiding	
authors in creating these modules uses automated critiquing, collaborative problem solving, and	
crowdsourcing techniques. The authoring tool, I call the Refl-ex Authoring and Critiquing Tool (REACT), will help non-experts (i.e. authors who have who have little or no knowledge of instructional strategies)	
create interactive social scenarios personalized to a particular individual with HFA. The technology will	
assist by advising the author on instructional strategies, and on scenario creation.	in progress
Refl-ex - Tool for Social Skills Development in Individuals with HFA, GT	Atlanta, GA
I am designing a system to help adolescents and young adults with HFASD in the US and	Atlanta, OA
Kuwait to rehearse and learn social skills with reduced aid from parents, and other caregivers.	
The objective is to develop technology to teach effective problem solving by allowing the	
individual to experience social situations and choose appropriate responses to unexpected	
events. The technology also assists and supports reflecting on those experiences, providing the individual with an opportunity to process information that can be recalled for later use. An	
exploratory user study has been conducted, and has informed the next steps for the project.	in progress
<b>iExpress - System to Detect and Contextualize Stereotypical Behaviors,</b> GT Individuals with Autism Spectrum Disorder (ASD) frequently engage in stereotypical behavior.	Atlanta, GA
In some individuals this behavior can occur with very high frequency and can be very disruptive	
and at times self-injurious. Along with 4 other students I developed i <i>Express</i> , a prototype system	
that contextualizes stereotypical behavior by automatically mapping occurrences of sterotypies to	
heart-rate data and audio-visual information obtained from the environment. To assess the	
feasibility, utility, and usability of <i>iExpress</i> , we conducted a formative study with parents, caregivers, and children with ASD whose findings will guide the development of the system.	in progress
eurogivers, una enharen with risb whose mianigs with guide the development of the system.	in progress
Dress for Success - Automated Uniform Recycling System, GT	Atlanta, GA
Along with 3 other students I developed a prototype of a web-supported uniform vending machine,	
with the goal of promoting and facilitating the recycling of school uniforms at a local elementary school. Completed IRB Human Subjects Training and conducted real user evaluation of the	
prototype.	Fall 2008
<b>MiChef-On-demand cooking experience,</b> Penn This project involved creating an on-demand cooking experience paged to the performance of	Philadelphia, PA
This project involved creating an on-demand cooking experience paced to the performance of cooking and supportive of all relevant steps, from ingredients to techniques to timing. This system	
	pring and Fall 2007
	-

	of wearable computing, focusing on human dynamics, and how to	Philadelphia, PA
create efficient and highly pe a non-invasive manner.	ersonalized wearable computers that allow users maximum control in	Spring 2007
e	designed and built, in hardware, an on-chip filter that will later	Pittsburgh, PA
Devices (AMD).	surgery. Named Exceptional Project by Advanced Micro	Spring 2005
EMPLOYMENT:		
Teaching Assistant,	– Computer and Information Science Dept.	Philadelphia, PA
	grading of two masters level Computer Architecture courses.	Fall 2007 and Spring 2008
<b>Gulf Bank</b> Intern,		Kuwait City, Kuwait
Aided the Human Resources I which existing job description purpose of determining appro	Department in the implementation of an analytical framework within as are updated, and new job descriptions can be generated for the priate compensation levels for employees. Gained an understanding information Technology perspective.	May 2007 – July 2007
Kuwait University – Colleg	e for Women (CFW)	Adeliyah, Kuwait
that act as a scheduling system their accounts including major	ing portion of the college's website. This involved creating web pag m for room reservations and web pages that allow students to managor or declaration and eligibility, tracking progress towards graduation, a calculations. Created and acted as editor for the college newsletter.	e
<i>Research Assistant,</i> Developed software for the d sensors. Also created a Wind	Experience for Undergraduates (REU) ata acquisition and storage of readings from stationary and mobile ows Service and configuration file that allow for maximum user meters involved in the acquisition of the data.	Miami, FL Summer 2004
Wataniya Telecom Intern,		Kuwait City, Kuwait
Designed interactive training Interdepartmental Training D	software for the Customer Care Department while working for the pepartment. Decemb	ber 2002 – January 2003
COMPUTER SKILLS:	Java, C, Flash, Flex, Actionscript 2.0, Actionscript 3.0, Adobe Air, MySQL, HTML, JavaScript, JQuery, XML, Verilog, Cadence, SPI Visual Studio, Dreamweaver, Illustrator, Photoshop, Eclipse, Maya	ICE, Matlab,
LANGUAGES:	Fluent in English, Spanish, and Arabic	
COMMUNITY SERVICE:	Java, Algebra, and Spanish Tutor Kuwait Little League (Girls' Softball Coach, Score Keeper) Emory Choices Program- Volunteer	
ACTIVITIES:	Department of Modern Languages- Language Assistant(CMU) Arab Student Organization- President(CMU) Carnegie Mellon Action Project- Tutor(CMU) Institute of Electrical and Electronics Engineers (IEEE) Society of Women Engineers(SWE) Society of Hispanic Professional Engineers (SHPE) CISters- Women in Computer and Information Science(Penn) W@CC-Women in the College of Computing(GT) CRA-W Grad Cohort for Women Atlanta Autism Consortium	

Kuwait University Graduate Studies Scholarship Carnegie Mellon Scholarship (Full Tuition) Merit Scholarship- Kuwait Ministry of Higher Education Xerox Corporate Scholarship Carnegie Mellon University Honors Kuwait Ministry of Higher Education Outstanding Graduate National Society of Collegiate Scholars Lino Lopez Award for Academic Excellence Lambda Sigma (Honor Society)(Treasurer) Phi Sigma Iota (Honor Society)

## **PUBLICATIONS:**

- Fatima A. Boujarwah, Nazneen, Hwajung Hong, Gregory D. Abowd, Rosa I. Arriaga. Towards a Framework to Situate Assistive Technology Design in the Context of Culture. To be presented at the 13th International ACM SIGACCESS Conference on Computers and Accessibility, 24-26 October 2011, Dundee, Scotland.
- Fatima A. Boujarwah, Jennifer G. Kim, Gregory D. Abowd, Rosa I. Arriaga. Developing Scripts to Teach Social Skills: Can the Crowd Assist the Author? *To be presented at the Human Computation Workshop at AAAI 2011*, 8-11 Aug 2011, San Francisco, CA.
- Fatima A. Boujarwah, Nazneen, Hwajung Hong, Gregory D. Abowd, Rosa I. Arriaga. Cross-Cultural Comparisons of Social Expectations of Individuals with Autism. Presented at the International Meeting for Autism Research, 12-14 May 2011, San Diego, CA.
- Fatima A. Boujarwah, Jennifer G. Kim, Mark O. Riedl, Rosa I. Arriaga, Gregory D. Abowd. Building a Knowledge Base to Support the Authoring of Social Skills Instructional Modules. *Presented at the International Meeting for Autism Research*, 12-14 May 2011, San Diego, CA.
- Fatima A. Boujarwah, Nazneen, Hwajung Hong, Gregory D. Abowd, Rosa I. Arriaga. Cross-Cultural Comparisons of Social Expectations of Individuals with Autism and Other Intellectual Disabilities. Presented at the 40<sup>th</sup> Annual Meeting of the Society for Cross-Cultural Research. 16-19 February 2011, Charleston, SC.
- Fatima A. Boujarwah, Mark O. Riedl, Gregory D. Abowd, Rosa I. Arriaga. REACT: Intelligent Authoring of Social Skills Instructional Modules for Adolescents with High-Functioning Autism. *In the Spring 2011 issue of the SIGACCESS Newsletter*.
- Nazneen, Fatima A. Boujarwah, Shone Sadler, Amha Mogus, Gregory D. Abowd, Rosa I. Arriaga. Understanding the Challenges and Opportunities for Richer Descriptions of Stereotypical Behaviors of Children with ASD: A Concept Exploration and Validation. To appear in the Proceedings of the 12th International ACM SIGACCESS Conference on Computers and Accessibility. 25-27 October 2010, Orlando, FL USA.
- Fatima A. Boujarwah, Hwajung Hong, Jackie Isbell, Rosa I. Arriaga, Gregory D. Abowd. Training Social Problem Solving Skills in Adolescents with High-Functioning Autism. *Presented at the International Meeting for Autism Research*. 20-22 May 2010, Philadelphia, PA.
- Fatima A. Boujarwah, Hwajung Hong, Jackie Isbell, Rosa I. Arriaga, Gregory D. Abowd. Training Social Problem Solving Skills in Adolescents with High-Functioning Autism. Proceedings of the 4th International Conference on Pervasive Computing Technologies for Healthcare. 22-25 March 2010, Munich, Germany.
- Nazneen, Fatima A. Boujarwah, Amha Mogus, Shone Sadler, Mohammed Habibulla, Gregory D. Abowd, Rosa I. Arriaga. Understanding the Context of Stereotypical Behaviors. *Presented at the International Meeting for Autism Research*. 20-22 May 2010, Philadelphia, PA.
- Jackie Isbell, Fatima A. Boujarwah, and Hwajung Hong. Computer-Assisted Instruction and Social Problem Solving in Adolescents with High-Functioning Autism Spectrum Disorders. *Presented at the 12th Annual Conference on Autism, Intellectual Disabilities, and Other Developmental Disabilites., Maui, HI, 2010.*
- Mark O. Riedl, Rosa Arriaga, Fatima A. Boujarwah, Hwajung Hong, Jackie Isbell, and L. Juane Heflin. Graphical social scenarios: Toward intervention and authoring for adolescents with high functioning autism. *Proceedings of the AAAI Fall Symposium on Virtual Healthcare Interaction*, Arlington, VA, 2009.
- Mark O. Riedl, Rosa Arriaga, Fatima A. Boujarwah, Hwajung Hong, Jackie Isbell, and L. Juane Heflin. Toward Assisted Authoring of Social Skill Scenarios for Young Adults with High Functioning Autism. *Proceedings of the IJCAI 2009 Workshop on Assisted Cognition*, Pasadena, California, 2009. Distinguished Contribution Award.
- Fatima A. Boujarwah, Amha Mogus, Jennifer Stoll, and Kanan Garg. Dress for Success: Automating the Recycling of School Uniforms. Proceedings of the 27th Annual Conference Extended Abstracts on Human Factors in Computing Systems, 4-9 April 2009, Boston, MA.