

# MOOJAN GHAFURIAN

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## RESEARCH INTEREST

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Artificial Intelligence, Human-Computer Interaction, and Cognitive Science.

## EDUCATION

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- 2017 **Doctor of Philosophy** in INFORMATION SCIENCES AND TECHNOLOGY  
**Dissertation:** Impatience in Dynamic Decision-Making: Its Moderation, and Implications for User Interface Design  
**Ph.D. minor in Computational Science;** an interdisciplinary graduate minor program  
**The Pennsylvania State University, USA**
- 2013 **Bachelor of Science** in COMPUTER SCIENCE AND ENGINEERING (Software Engineering)  
 B.Sc. thesis: Intelligent Tutoring System for Toddlers and Preschoolers  
**University of Tehran, Iran**
- 2008 High School Diploma in MATHEMATICS AND PHYSICS  
**Farzanegan High School, Tehran, Iran**  
 Affiliated with National Organization for Development of Exceptional Talents (**NODET**)

## WORK EXPERIENCE AND PROFESSIONAL PREPARATION

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| CURRENT<br>JUNE 2017   | <b>Postdoctoral Fellow</b> , Computer Science, University of Waterloo<br><b>Summer School</b> on Cognitive Robotics. <i>MIT, Cambridge, MA, USA</i>  |
| FALL 2013<br>SPRING & SUMMER 2014<br>FALL 2015<br>SUMMER & FALL 2016<br>SUMMER & FALL 2017 | <b>Research Assistant</b><br><i>Pennsylvania state University, College of Information Sciences and Technology</i><br>Investigating the effects of impatience bias on timing decisions, how to moderate impatience, and implications for HCI. Responsibilities included designing, implementing and running experiments, data-analysis, and modeling. |
| SUMMER 2012  | <b>Summer Internship</b><br>International Association for the Exchange of Students for Technical Experience (IAESTE)<br><i>Silesian University of Technology, Gliwice, Poland</i><br>Developing cross-platform mobile applications using QT  |

## ACADEMIC HONORS AND AWARDS

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| 2017 | <b>NSF Travel Grant</b><br>Summer School on Cognitive Robotics, MIT, Boston, USA  |
| 2017 | <b>GHC Scholarship</b><br>Grace Hopper Celebration of Women in Computing, Florida, USA  |
| 2017 | <b>Travel Award</b> , Human Computer Interaction Consortium (HCIC) 2017   |
| 2017 | <b>Travel Award</b> , CRA-W Grad Cohort 2017  |
| 2016 | <b>Selected for Participation at the ACM Student Research Competition (SRC)</b><br>Grace Hopper Celebration of Women in Computing |
| 2016 | <b>ACM SRC Travel Award</b> , Grace Hopper Celebration of Women in Computing  |
| 2014 | <b>GHC Scholarship Sponsored by eBay inc.</b><br>Grace Hopper Celebration of Women in Computing, Arizona, USA                     |
| 2007 | <b>Qualified for Participation in Robocup International Competitions</b><br>World Robocup Competition, Atlanta, USA               |

- 2006, 2007 **Fourth and Third Place, Junior Soccer Secondary 2 on 2 League**  
Iran Open Robocup Competition, Tehran, Iran
- 2006 **Fourth Place, Junior Soccer Secondary 2 on 2 League**  
World Robocup Competitions, Bremen, Germany
- 2006 **First Place, Junior Soccer Secondary 1 on 1 League**  
Iran Open Robocup Competitions, Tehran, Iran
- 2005 **5th Place among Tehran High School Students**  
Robotic Program Selection Exam, Tehran, Iran
- 2000 **Accepted in Schools of National Organization for Development of Exceptional Talents**  
(NODET Entrance Exam with 1% acceptance rate), Tehran, Iran

## TEACHING EXPERIENCE

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I have been a teaching assistant in the following courses. Responsibilities included: Teaching sessions of classes; holding problem-solving sessions; designing assignments, quizzes, midterm/final exams, and class competitions; grading and providing feedback; serving as a chief TA, responsible for managing the course, assignments, and coordinating other TAs; tutoring students in class and during office hours.

- Object-Oriented Design and Software Applications (IST 311)**, Spring 2017, Instructor: Dr. D. R. Mudgett
- Organization of Data (IST 210)**, Spring 2016, Instructor: Dr. B. V. Hanrahan
- Usability Engineering (IST 413)**, Spring 2015, Instructor: Dr. F. E. Ritter
- Organization and Design of Information Systems: User and System Principles (IST 331)**, Spring 2015, Instructor: Dr. F. E. Ritter
- The Engineering of Complex Software Systems (IST 412)**, Fall 2014, Instructor: Dr. D. R. Mudgett
- Intelligent Systems**, Spring 2013, Instructor: Dr. M. Mirian
- Multiagent Systems**, Fall 2012, Instructor: Dr. F. Taghiyareh
- Programming Languages (Chief Teaching Assistant)**, Fall 2012, Instructor: Dr. F. Ghasemi
- Artificial Intelligence**, Fall 2011 and Fall 2012, Instructor: Dr. M. Mirian
- Discrete Mathematics (Chief Teaching Assistant)**, Spring 2012, Instructor: Dr. S. Mohammadi
- Discrete Mathematics**, Fall 2010 and Spring & Fall 2011, Instructor: Dr. S. Mohammadi
- Theory of Formal languages and Automata**, Fall 2010 and Spring 2011, Instructor: Dr. K. Fooladi

## MANUSCRIPTS IN PREPARATION OR UNDER REVIEW

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Ning F. Ma, Chien Wen Yuan, **Moojan Ghafurian**, and Benjamin V. Hanrahan (accepted, CHI 2018)  
**Using Stakeholder Theory to Examine Drivers' Stake in Uber**

**Moojan Ghafurian** and David Reitter (Under review)  
**Impatience in Dynamic Decision Making**

**Moojan Ghafurian**, Frank Ritter, and David Reitter (in preparation)  
**Countdown Timer Speed: A Trade-off between Delay Duration Perception and Recall**

**Moojan Ghafurian** and David Reitter (in preparation)  
**Moral decision-making about time: How appropriate is it to save time by taking it from others?**

Jeremy R. Cole, **Moojan Ghafurian**, and David Reitter (Under review)  
**Word Adoption in Reddit**

## PUBLICATIONS

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Jeremy R. Cole, **Moojan Ghafurian**, and David Reitter. 2017.  
**Is Word Adoption a Grassroots Process? An Analysis of Reddit Communities**  
In Social, Cultural, and Behavioral Modeling. Washington, D.C., Springer.

Jeremy R. Cole, **Moojan Ghafurian**, and David Reitter. 2017.

**Linking Memory Activation and Word Adoption in Social Language Use via Rational Analysis**  
In Proceedings of the 15th International Conference on Cognitive Modeling. London, UK.

**Moojan Ghafurian** and David Reitter. 2016.

**Impatience Induced by Waiting: An Effect Moderated by the Speed of Countdowns**  
In Proceedings of the 2016 ACM Conference on Designing Interactive Systems (DIS '16).  
ACM, Brisbane, Australia, 556-564. DOI=<http://dx.doi.org/10.1145/2901790.2901830>

**Moojan Ghafurian** and David Reitter. 2016.

**Gender Differences in the Effect of Impatience on Men and Women's Timing Decisions**  
In Proceedings of the 38th Annual Meeting of the Cognitive Science Society (CogSci 2016).  
Philadelphia, PA, USA, 1223-1228.

**Moojan Ghafurian** and David Reitter. 2014.

**Impatience, Risk Propensity and Rationality in Timing Games**  
In Proceedings of the 36th Annual Meeting of the Cognitive Science Society (CogSci 2014).  
Quebec City, QC, Canada, 2841-2846.

## FURTHER CONFERENCE PRESENTATIONS

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**Moojan Ghafurian**

**Moderating Users' Impatience Using Fast Countdowns**  
Grace Hopper Celebration of Women in Computing, 2016  
ACM Student Research Competition

David Reitter, **Moojan Ghafurian**, and Jens Grossklags

**Systematic, Individual and Situational Biases in Timing Decisions**  
Oral Presentation at the International Meeting of the Psychonomic Society, Granada, Spain, 2016

**Moojan Ghafurian**

**Impatience, Risk Propensity and Rationality in Timing Games**  
Grace Hopper Celebration of Women in Computing, 2014, General Poster Session

## COMPUTER SKILLS

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**Programming:** PYTHON, JAVA, C/C++, MYSQL, PHP, JAVASCRIPT, R, HTML, MATLAB,  $\text{\LaTeX}$

## PROFESSIONAL MEMBERSHIPS

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Association for Computing Machinery (ACM)  
Society for Judgment and Decision Making  
Cognitive Science Society

## SERVICE

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2017	Reviewing conference papers: Annual Meeting of the Cognitive Science Society (CogSci)
2016, 2017	Reviewing conference papers: International Conference on Cognitive Modeling (ICCM)
2017	Oral presentation reviewer/judge for the 14th Annual College of Engineering Research Symposium (CERS 2017), Simulation and Mechanisms session, Penn State
2017	Judge for the Undergraduate Exhibition 2017, Engineering session, Penn State

2016	Judge for the 82nd Annual State Competition of the Pennsylvania Junior Academy of Science
AUG. 2015-AUG. 2016	Vice President of ISA (student organization) at Penn State
AUG. 2014-AUG. 2015	Officer of Graduate Student Association at IST (GIST)
FALL 2014 & SPRING 2015	Member of IST Travel Award Committee

#### EXTRACURRICULAR HONORS AND AWARDS

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2007	<b>Awarded the National Distinguished Solo Piano Player</b> The First Festival of Private Art Institutes, Tehran, Iran
2011 & 2012	<b>Captain and coach of the College of Engineering's Futsal team</b> University of Tehran, Tehran, Iran
2005, 2006, & 2007	<b>3rd, 3rd, and 2nd Place of Futsal Competitions</b> NODET High School Competition, Tehran, Iran