

# Athena Kardehi Moghaddam

Athena Kardehi Moghaddam  
E-mail: [athena.kardehimoghaddam@mail.mcgill.ca](mailto:athena.kardehimoghaddam@mail.mcgill.ca)  
Second E-mail: [A.K.Moghaddam@gmail.com](mailto:A.K.Moghaddam@gmail.com)  
Home Page: <http://cs.mcgill.ca/~akarde>

Postal Address: McConnell Building, Room 111  
3480 University Street  
Montreal, QC, Canada, H3A 2A7  
cellphone: +1-514-834-7071

---

## EDUCATION

<b>Graduate</b>	M.Sc. in Computer Science - Department of Computer Science, Faculty of Science, McGill University.	Montreal, Canada
Sep. 2010 -present	M.Sc. Thesis on "Smart Wheelchair" Supervised by Prof. Joelle Pineau <ul style="list-style-type: none"><li>Reasoning and Learning Group</li><li>CGPA: 3.53/4.00</li></ul>	
<b>Undergraduate</b>	B.Sc. in Computer Engineering - Hardware, Department of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran.	Tehran, Iran
Sep. 2005 - Aug. 2010	B.Sc. Thesis on "Human Computer Interaction" Supervised by Prof. Hamid Noori <ul style="list-style-type: none"><li>CGPA: 15.72/20.0</li><li>Last year GPA: 17.29/20.00</li></ul>	
<b>High School</b>	Farzanegan High School, under the supervision of NODET (National Organization for Developing Exceptional Talents)	Mashhad, Iran
Sep. 2001 - Jul. 2005		

---

## RESEARCH INTEREST

Machine Learning  
Reinforcement Learning

Human Computer Interaction  
Robotics Vision

---

## TEACHING EXPERIENCE

Teacher		Tehran, Iran
<b>Innovative Projects in Computer Science</b> under the supervision of NODET National Organization for Developing Exceptional Talents		Fall 2009
Teaching Assistant		Tehran, Iran
<b>Microprocessors, Data Structures and Algorithms, Computer Architecture, Digital Logic Design, Fundamentals of Computer Programming, Advanced Programming</b> University of Tehran		Winter 2006-Spring 2010
Teaching Assistant		Montreal, Canada
<b>Introduction to Computer Science, Data Structures and Algorithms</b> McGill University		Fall 2010-Spring 2011

---

## WORKING EXPERIENCE

<b>Reasoning and Learning Lab.</b>	<b>Smart Wheeler Project</b> Research Assistant Classifying Wheelchair Input Data Using Machine Learning Technics Supervised by Prof. Joelle Pineau	Montreal, Canada
September 2010 - present		
<b>Industrial Robotics Lab.</b>	<b>Design and Manufacturing of an Intelligent Fuel Injection Control System</b> Internship Industrial Trainning Ordered by Iran Khodro Co. Supervised by Prof. Majid Nili	Tehran, Iran
Summer 2009		

---

## HONORS AND AWARDS

**McGill Faculty Scholarship:** Fall and Winter 2010-2011, Under Supervision of Prof. Joelle Pineau  
**Selected as "Exceptional Talents" by National Organization for Educational Testing:** Summer 2005  
**Top 0.03% of the Nationwide Matriculation Exam:** Summer 2005, 185th Rank among Nearly 500,000 Participants  
**37th Rank in National Graduate Entrance Exam:** Spring 2008, Artificial Intelligence Field

---

## PUBLICATIONS

**Mobility Profile and Wheelchair Driving Skills of Powered Wheelchair Users: Sensor-Based Event Recognition Using a Support Vector Machine Classifier:** A. K. Moghaddam, J. Pineau, J. Frank, P. Archambault, F. Routhier, T. Audet, J. Polgar, F. Michaud and P. Boissy, *Accepted for Engineering in Medicine and Biology Conference Management System Conference 2011.* [[Download .PDF](#)]

---

## RESEARCH AND PRACTICAL EXPERIENCE

**Developing an Alternative to Mouse Device for the Handicapped:** Nintendo Wii Signal Processing and Developing an Alternative to Computer Mouse Device Proper for the Handicapped using Nintendo Wii Remote Control, Fall 2009, B.Sc. Thesis Supervised by Prof. Hamid Noori and Prof. Masoud Asadpour  
**Developing a Game Proper for the Blind:** Developing a Game Tool Using Nintendo Wii Remote Control and Programming a Game Proper for the Blind , Summer 2009, Supervised by Prof. Masoud Asadpour  
**Facebook Social Network Analysis:** Fall 2009, Analyzing Iraninan Facebook members Graph Properties, Supervised by Prof. Masoud Asadpour

---

## COMPUTER SKILLS

### Computer Software Languages and Frameworks

Professional in C/C++, Java, MATLAB  
Familiar with C#

Familiar with Web Design and Programming (ASP .NET)  
Database Design and Managements (MS SQL Server)

---

## LANGUAGE SKILLS

**English : Fluent**

**Persian : Native**

**French : Beginner**

TOEFL IBT 103/120: Reading 25, Listening 27, Speaking 27, Writing 24

---