

# Sima Lotfi

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**OBJECTIVES** Work as a member of a team of software developers to enable me to utilize and enhance my programming, teamwork, and leadership skills. I thrive on opportunities that nurture and encourage creativity and originality which also portray a positive image on my organization.

**SKILLS** Programming Languages- Proficient: C++, Matlab; Familiar: Java and Python  
Familiar with Linux, OOP, LaTeX, HTML, PHP, SQL, gdb, Weka and SimpleScalar  
DTP Tools – Microsoft Office (Word/PowerPoint/Excel), Photoshop  
Ability to work in a team, adapt to a new environment, give/receive feedback in a positive manner, work with deadlines, and give technical presentations

**EDUCATION**

- **University of California at Riverside**, Riverside, CA, USA  
M.S. in Computer Science *Expected: Aug 2010*
- **Sharif University of Technology**, Tehran, Iran. *Spring 2008*  
B.Sc. in Information Technology Engineering  
Thesis: Applications of Harmony Search in Data Classifiers

**RESEARCH /WORK PROJECTS /EXPERIENCES**

- **Graduate RA, Bazhenov Research Group, UC Riverside** *2009-present*  
Advisor: Prof. Maksim Bazhenov  
Developing a Neural Network capable of learning and recognizing patterns in C++ and analyzed the results using Matlab. Learned the computational/physiological pattern recognition algorithms and conducting technical presentations.

- **Internship in Farabi Hospital** *Summer 2008*  
Developed a software for the reception system of the hospital using C++ and SQL.  
Learned how to analyze a current world system and design a new one based on user requirements; learned how to work in a very large team and also writing technical reports.

- **Undergraduate RA, Artificial Creatures Lab, SharifUT** *2006-2008*  
Advisor: Dr. S. Bagheri, SharifUT  
Working on Symbiotic Evolutionary algorithms and their applications in Classifier Generation. Using the evolutionized classifiers, we implemented a Data Mining algorithm. Knowledge of data mining techniques and ability to implement and apply them to the very large data base of results. Ability to establish a good relation with other students in the team. Enough knowledge of English language to write publishable papers.

- **Undergraduate RA, Robotics Lab, SharifUT** *2006-2007*  
Advisor: Dr. J. Habibi, SharifUT  
Worked on Multi-agent Systems in a Robocup Rescue Simulation project. Implemented and analyzed the performance of many algorithms for ambulance agents. Learned team work skills and also how to work under the high pressure of multiple deadlines.

- Efficient Suffix Tree String Dictionaries, CS234 final project *Winter 2009*

**HONORS AND AWARDS**

- University of California, Riverside Deans fellowship *2008*
- **6th place**, Robocup 2006, Rescue Simulation League, Germany *2006*
- **3rd place**, The National Urban Robots Contest, Rescue Simulation *2006*
- **99.6 percentile**, National Competitive Exam *2004*

- PUBLICATIONS
- R. Halavati, S. Bagheri, **S. Lotfi**, P. Esfandiar, *Symbiotic Evolution of Rule-Based Classifier Systems*, International Journal on Artificial Intelligence Tools(IJAIT), 2009
  - R. Halavati, S. Bagheri, P. Esfandiar, **S. Lotfi**, *Rule Based Classifier Generation using a Symbiotic Evolutionary Algorithm*, in proceedings of the 19th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'07), Greece, 2007
  - **S. Lotfi**, *A Survey and Analysis of Virtual Museums*, Electronic Magazine of Iranian Information and Documentation Center, 2007 (in Persian)
  - Impossible team members, *Team Description Paper of Impossible Robocup Rescue Simulation Team*, Robocup International Competition, Bremen, Germany, 2006
- EXPERIENCES
- **Sima Lotfi** and Maksim Bazhenov, "A survey of graphical models of the visual cortex", presented as a poster at IEEE Student Research Symposium at UCR (ISRS-UCR), 2010.  
Learned how to make and present a technical poster.
  - **Participation in Numenta HTM Workshop** 2009  
A workshop on the latest findings of modeling the structure and operation of the human visual cortex and its applications in machine vision and pattern recognition. Networking with
  - **Presentation of Rule Based Classifier Generation using a Symbiotic Evolutionary Algorithm**, The 19th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'07), University of Patras, Greece 2007
- TEACHING EXPERIENCES
- TA of Intermediate Data Structures and Algorithms, UCR, Prof Young 2009
  - TA of Intermediate Data Structures and Algorithms, UCR, Prof Jiang 2008
  - TA of Introduction to Computer Programming, UCR, Dr. Klefstad 2008
  - TA of Introduction to Computing, UCR, Mr. Gustafsoni 2008
  - TA of Scientific and Technical Presentation, SUT, Mr. Abtahi 2007
- HOBBIES
- Mountain/Rock climbing, Reading poems and novels