

# RÉSUMÉ

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## MOHAMMAD MOHARRAMI

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### RESEARCH INTERESTS

- Design and analysis of algorithms
- Graph Theory
- Complexity Theory
- Combinatorial Optimization

### EDUCATION

- Sharif University of Technology, Tehran, Iran  
*B.Sc. in Computer Engineering, Major: Software Engineering*, since September 2002  
Graduation Date: February 2006 GPA: 16.14/20 GRE Subject Computer Science(December 2005):  
890/900(99%)

*Relevant course work* (GPA 19.0/20): Quantum Computing(Graduate Course), Parallel Processing (Graduate Course), Combinatorial Optimization(Graduate course), Seminars on complexity(Graduate course), Data Analysis and Algorithms, Theory of machines and languages, JAVA Programming.

- Allameh Helli High School, Tehran, Iran  
Part of National Organization for Development of Exceptional Talents  
*Diploma, Mathematics and Physics Discipline*, 1998–2001.

### HONORS AND AWARDS

- **Ranked 13th**, ACM ICPC World Final , Spring 2006.
- **Ranked 2nd, 1st**, ACM ICPC Regional contest respectively, fall 2004, fall 2005.
- **Outstanding student**, Awarded by university president, 2002, 2006.
- **Silver Medal**, International Olympiad in Informatics , Summer 2002.
- **Team member**, Central European Olympiad in Informatics, Summer 2002.
- **Gold Medal**, 11th Iranian National Olympiad in. Informatics, Summer 2001
- **Bronze Medal**, Iranian National Mathematics. Olympiad, Summer 2000

## EXPERIENCES

- Undergraduate Research in Institute for Studies in Theoretical Physics and Mathematics(IPM), Summer and fall 2005  
Advisor: Dr. M. Hajiaghayi, CSAIL, MIT  
Plane Embedding of Planar Metrics; a joint work with M. Hajiaghayi, E. D. Demaine, M. Bateni, SoCG'06.
- Undergraduate Research in Information Retrieval Lab. , Sharif University of Technology, spring 2005  
Advisor: Dr. Hassan Abolhasani, Computer Engineering Department  
On Spam Detection mechanisms; a joint work with M. Bateni.
- Undergraduate Research in Parallel Processing Lab, Sharif University of Technology, Spring 2005  
Advisor: Phd. Mohammad Ghodsi, Computer Engineering Department  
On the Stability of Peer-to-Peer Networks.
- Undergraduate Research in Sharif university, Sharif University of Technology, Winter and Spring 2005  
Advisor: Dr. Amir Daneshgar, Mathematics Department  
On the CSP Defining Set Complexity; a joint work with Siavosh Benabbas, and Amir Daneshgar.
- Teaching Assistant, Computer Engineering Department, Sharif University of Technology,  
Courses:
  - *Data Structures and Algorithms* .Fall 2002
  - *Discrete Structures* .Spring 2003
  - *Theory of machines and languages* .Fall 2003
  - *Data analysis and algorithm* .Spring 2004

Responsibilities included: *attending problem-solving classes, grading assignments, projects, and exams.*

- Member of the Scientific Committee of Iranian Olympiad in Informatics, Since Winter 2002  
Responsibilities includes: *designing problems for national competitions, teaching, creating and grading exams in training camps.*
- Head of INOI summer camp Iranian Olympiad in Informatics, Summer 2004  
Coordinating trainers and and teaching material, giving weekly reports, short-time planning and holding exams. *The camp included more than 30 high school students, and a group of more than 10 trainers taught them algorithm basics and programming.*
- Second Iranian Nation-wide Programming Contests, Fall 2004  
Holding Iran's second Nation-wide Programming Contests, 2004.

## SKILLS

- Human Languages: Proficient in Persian (Native) and English , can read Arabic.
  - Programming Languages: Proficient in *C, C++, Java*.
  - Operating Systems: Familiar with GNU/Linux and UNIX development and tools.
  - Other Skills: Approximation , Randomized , Parallel, and Quantum algorithms, Graph Theory, Combinatorial optimization, Complexity, and Basic Algebra.
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