

Mohammad Mehdi Ezzat Abadi Pour

PERSONAL INFORMATION

Physics
Sharif University of Technology
Azadi St., Tehran, Iran
Gender: Male
Date of Birth: 1 August 1990
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Sadeghie Sq., Tehran, Iran
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EDUCATION

Sharif University of Technology¹, Tehran, Iran
B.Sc. in Physics 2008-2013 (expected)

- Overall GPA: **16.48/20 (3.67/4.0)** via 123 credits
- GPA of The Last Two Years: **16.35/20 (3.65/4.0)** via 63 credits

Young Scholars Club (Exclusive Organizer of National Olympiads), Tehran, Iran
Official Preparatory Course for National Chemistry Olympiad Summer 2007

- **Silver Medal**²

Shahid Dastgheib High School for Exceptional Talents, Shiraz, Iran
High School Diploma in Mathematics and Physics 2004-2008

- Overall GPA: **19.11/20**

HONOURS AND AWARDS

Member of '**National Foundation of Elites**'³ since 2008

Monthly Grant for undergraduate studies, National Foundation of Elites, 2008-Present

Ranked 1st in class in more than **10 courses** in Sharif University of Technology, 2008-Present

Ranked 61st among more than 300,000 participants in **National University Exam**, 2008

Silver Medal, National Chemistry Olympiad, 2007, Tehran, Iran

Ranked 3rd in Chemistry Laboratory Olympiad in Fars Province, 2006, Shiraz, Iran

RESEARCH INTERESTS

Interdisciplinary Physics, Biophysics, Complex Systems, Econophysics, Complex Networks, Neural Networks, Neuroscience

TEACHING EXPERIENCE

Teaching Assistant (TA) in *Computational Physics* with Professor Ejtehadi, Department of Physics, Sharif University of Technology, Fall Semester 2011, Tehran, Iran

Teaching Assistant (TA) in *Electro Acoustic Laboratory* with Professor Amjadi, Department of Physics, Sharif University of Technology, Fall Semester 2012, Tehran, Iran

Teaching Assistant (TA) in *Electro Acoustic* with Professor Amjadi, Department of Physics, Sharif University of Technology, Winter-Spring Semester 2011, Tehran, Iran

Teaching Assistant (TA) in *Electronic Laboratory* with Professor Amjadi, Department of Physics, Sharif University of Technology, Winter-Spring Semester 2011, Tehran, Iran

Teaching Chemistry, preparation for *National Chemistry Olympiad*, Allameh Helli High School, Farzanegan High School, Exceptional Talents, since summer 2011, Tehran, Iran

¹Sharif University of Technology is the most high-ranked university in Iran in both engineering and science (<https://www.sharif.edu> and <http://physics.sharif.edu>)

²Each year approximately 25,000 eligible students participate in this multistage competition, about 40 of them pass the first and second stages to enter the preparation course. At the end of this course, ten participants receive a Gold Medal, and about 15 receive Silver Medal

³This society encompasses an elite group of students which have acquired a notable status or accomplished an exclusive achievement in their education

	Teacher of <i>IYPT</i> , Preparation for <i>International Young Physicists Tournament</i> , Allameh Helli High School, Exceptional Talents, since summer 2011, Tehran, Iran														
RESEARCH EXPERIENCE	<p><i>Investigating of Self Assembly in ssDNAs linked by NanoParticles populations, Coarse Grained MD Simulation by Espresso Software</i>, with Dr Ejtehad, Physics Department, 2011-Present, Sharif University of Technology, Tehran, Iran</p> <p><i>Edge Detection of Breast Cancer Tumors, Phantom Study in Medical Physics Laboratory</i>, with Dr Amjadi, Physics Department, since summer of 2012, Sharif University Of Technology, Tehran, Iran</p> <p><i>Investigating Burst Behaviour in Creation Of Wikipedia Pages, Developing in Growth Model</i>, with Dr Jafari, Physics Group, since summer of 2012, Shahid Beheshti University, Tehran, Iran</p> <p><i>Classical and Quantum Cryptography Simulation</i>, with Professor V. Karimipour, Physics Department, since summer of 2012, Sharif University Of Technology, Tehran, Iran</p>														
PUBLICATIONS	<p>A. Amjadi, M. S. Feiz, S. O. Sobhani, M. M. Ezzatabadi Pour, M. Taheri Nie, Effect of Polarization on Tumor Detection in Dispersive Medium: an experimental phantom study, to be prepared and submitted to Journal of Laser Physics.</p> <p>P. Dasmeh, M. M. Ezzatabadi Pour, H. Kazemi, Nonlinear Behaviour of Enzyme Reaction: Data Analysis, Poster Presentation in Physics Congress Of Ahvaz University.</p>														
CERTIFICATES	<p>4th International Summer School on Modern Computational Science and Optimization, University of Oldenburg, August 2012, Oldenburg, Germany</p> <p>Workshop on Espresso Coarse Grain Simulation, University of Tehran, December 2010, Tehran, Iran</p> <p>Mini Workshop on Biological Physics, Soft Condensed Matter Group, Physics Department, Sharif University of Technology, December 2011, Tehran, Iran</p> <p>Workshop on Theoretical Computer Science, Computer Science Department, Institute of Research in Fundamental Science (a.k.a. IPM), July 2011, Tehran, Iran</p> <p>Workshop on Thinking in GPU Programming, Computer Science Department, Institute of Research in Fundamental Science (a.k.a. IPM), July 2010, Tehran, Iran</p>														
COMPUTER SKILLS	<p>C, C++, Java, Espresso, GnuPlot, AutoCAD, Python, L^AT_EX 2_ε</p> <p>Microsoft Office (Word, Excel, Powerpoint)</p> <p>O.S : Linux, Windows</p> <p>Familiar With: VMD, R, Fortran, Linux shell scripting</p>														
MEMBERSHIPS	<p>Soft Condensed Matter Group, Department of Physics, Sharif University of Technology, 2011-Present</p> <p>Physics Society of Iran (<i>PSI</i>), 2010-Present</p> <p>Medical Physics Group, Department of Physics, Sharif University of Technology, 2011-Present</p>														
SELECTED COURSES	<p>Physics:</p> <table> <tr> <td>Computational Physics</td><td>17.5/20, Prof. Seyed Allaei, Ranked 3rd</td></tr> <tr> <td>Statistical Thermodynamics</td><td>18.5/20, Prof. Ejtehad, Ranked 2nd</td></tr> <tr> <td>Mathematical Physics</td><td>19.2/20, Dr. Mosaffa, Ranked 2nd</td></tr> <tr> <td>BioPhysics</td><td>19/20, Dr. Eslami, Ranked 2nd</td></tr> <tr> <td>Analytical Mechanics II</td><td>19.5/20, Prof. Akhavan, Ranked 2nd</td></tr> <tr> <td>Nonlinear Dynamics and Chaos</td><td>Not Reported Yet, Prof. Moghimi</td></tr> <tr> <td>Electromagnetism I</td><td>17.5/20, Prof. Moghimi, Ranked 3rd</td></tr> </table>	Computational Physics	17.5/20, Prof. Seyed Allaei, Ranked 3rd	Statistical Thermodynamics	18.5/20, Prof. Ejtehad, Ranked 2nd	Mathematical Physics	19.2/20, Dr. Mosaffa, Ranked 2nd	BioPhysics	19/20, Dr. Eslami, Ranked 2nd	Analytical Mechanics II	19.5/20, Prof. Akhavan, Ranked 2nd	Nonlinear Dynamics and Chaos	Not Reported Yet, Prof. Moghimi	Electromagnetism I	17.5/20, Prof. Moghimi, Ranked 3rd
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Programming Courses:

Advanced Java Programming

17.5/20, Prof. Aliakbari, Ranked 3rd**General Courses:**

General Math I

20/20, Prof. Shojaee, Ranked 1st

General Math II

18/20, Prof. Rastegar, Ranked 1st

Differential Equation

19.5/20, Prof. Naghshine, Ranked 1st

Numerical Computations

Not Reported Yet, Dr. KavyaniLANGUAGE
PROFICIENCYTOEFL iBT (November 2012): **86/120** (Subscores: Reading: 25/30, Listening 20/30, Speaking: 20/30, Writing: 21/30)

English (Fluent)

Farsi (Native)

Arabic (Basic)

HOBBIES

Giving Public Lectures on Science

Swimming and Mountain Climbing (Member of University Mountain Climbing Group a.k.a. Hamnavard, Member of Sharif Green Society), Walking, Philosophy, Music, Movies

REFERENCES

Dr.Reza Ejtehadi*Associate Professor**Department of Physics**Sharif University of Technology**E-mail:ejtehadi@sharif.edu**Phone:+98 21 6616 4525***Dr.Hamed Seyed Allaei***Associate Professor**School of Cognitive Science**Institute for Studies in Theoretical Physics and Mathematics (a.k.a IPM)**E-mail:hamed@ipm.ir**Phone:+98 21 22280692***Dr.Gholamreza Jafari***Associate Professor**Department of Science, Physics Group**Shahid Beheshti University**E-mail:g_jafari@sbu.ac.ir**Phone:+98 21 29902773*