

Curriculum Vitae

Surname: Habibi

Name: Alireza

Date of Birth: 09 January 1987

Place of Birth: Damghan

Nationality: Iranian

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Education:

❖ **2013-present**

PhD in Physics (Condensed matter), Sharif University of Technology, Tehran, Iran.

❖ **2009-2012**

M.Sc. in Physics (Condensed matter), Sharif University of Technology, Tehran, Iran.

Total GPA: (19.16/20)

❖ **2005-2009**

B.Sc. in Solid States Physics, Damghan University, Damghan, Iran.

Total GPA: (17.75/20)

❖ **2004-2005**

Pre-university, Ayatollah Khamenei, Damghan, Iran.

❖ **2001-2004**

High school Diploma in Mathematics-Physics, Mehrab , Damghan , Iran.

Special Honors

❖ **Ranked 1st:** Top student in B.Sc. for 8 semesters. (2005-2009).

❖ **Ranked 10st:** In National scientific university student Olympiad in fields of physics (2009)

Awards and Honors:

Academic Excellence Award - Scholarships (2006)

Teaching Experience

❖ Teaching Undergraduate course: Special physics II (Spring 2013)

❖ Teaching Undergraduate course: Special physics (Spring 2013)

- ❖ Teaching Undergraduate course: Fundamental of Physics I (Autumn 2012)
- ❖ Teaching Undergraduate course: Fundamental of Physics II (Autumn 2011)
- ❖ Teaching Undergraduate course: General physics (Autumn 2012)
- ❖ Teaching assistant of Undergraduate course General lab II taught by Dr. Sadighi and Dr. Anvari, Sharif University of Technology (Autumn 2011)
- ❖ Teaching assistant of Graduate course: Advanced Solid State taught by Dr. Jafari, Sharif University of Technology (Spring 2011)
- ❖ Teaching assistant of Undergraduate course: General lab II taught by Dr. Mahdavi, Sharif University of Technology (Spring 2011)
- ❖ Teaching assistant of Undergraduate course: General lab II taught by Dr. Khosro Abadi and Dr. Mosaffa, Sharif University of Technology (Autumn 2010)
- ❖ Teaching assistant of Undergraduate course: Quantum Mechanics I taught by Dr. Souri, Damghan University (Autumn 2009)
- ❖ Teaching assistant of Undergraduate course: Electromagnetism I taught by Dr. Kalhor, Damghan University (Autumn 2009)
- ❖ Teaching assistant of Undergraduate course: physics II & III taught by Dr. Fadavi, Damghan University (Winter 2007)
- ❖ Teaching assistant of Undergraduate course: physics II & III taught by Dr. Fadavi, Damghan University (Autumn 2007)

Selected courses attended:

- ❖ Statistical Field Theory, Dr. Karimipour
- ❖ Special Topics in Condensed Matter , Dr. Va`ezi
- ❖ Quantum Field Theory in condensed matter Physics, Dr. Jafari
- ❖ Advanced Solid State Physics, Dr. Y. Akhavan
- ❖ Physics of Superconductors, Dr. Vali
- ❖ Physics of Semiconductor Devices I , Dr. Souri

Research Skills:

- ❖ Computational condensed matter physics
- ❖ Molecular Dynamics
- ❖ Hubbard model
- ❖ Anderson Disorder Model
- ❖ Critical Phenomena

Publications:

- ❖ Habibi, Alireza; Jafari, Seyed Akbar. "**RKKY interaction in heavily vacant graphene**".Journal of Physics: Condensed Matter. doi:10.1088/0953-8984/25/37/375501

Conferences (in Persian):

- ❖ Habibi, Alireza; Saberi, Abbas Ali; Jafari, Seyed Akbar. "**Conformal Invariance in the amplitudes of the critical wave functions at 2D Anderson transition in the Spin-Orbit symmetry**", The Annual Physics Conference, Yazd, Iran, 2009
- ❖ Habibi, Alireza; Saberi, Abbas Ali; Jafari, Seyed Akbar. "**Corrections-to-scaling effects on critical exponents of 2D and 3D metal-insulator transition in the Spin-Orbit symmetry class**", The Annual Physics Conference, Yazd, Iran, 2009

- ❖ Habibi. A. R. ; Cheraghchi. H. , "**Statistical Properties and conductance of rough graphene sheets**", The Annual Physics Conference, Esfahan, Iran, 2009, pages 277-280
- ❖ Habibi. A. R. ; Cheraghchi. H., "**Anderson Localization in the Square and Cubic Lattices**", The 9th Conference of Condensed Matter Physics, Ahvaz, Iran, 2009, pages 362-365
- ❖ Hosseini. S.; Cheraghchi. H.; Habibi. A. R., " **Anderson Localization in Graphene Sheets**", The 9th Conference of Condensed Matter Physics, Ahvaz, Iran, 2009, pages 554-557
- ❖ Cheraghchi. H. ; Habibi. A. R. , "**Anomalous properties of localization in one-dimensional disordered models**", The Annual Physics Conference, Kashan, Iran, 2008, pages 33-36

Attended Conferences and Schools:

- ❖ Advanced school on Recent Progress in Condensed Matter Physics, IPM, Tehran, Iran, June 2012
- ❖ 19th Spring Physics Conference Systems , IPM, Tehran, Iran, May 2012
- ❖ School on selected topics in Strongly Correlated Systems , IPM, Tehran, Iran, June 2011
- ❖ The 17th Annual IASBS Meeting on Condensed Matter Physics, Zanjan, Iran, May 2011
- ❖ The 10th Annual Conference on Condensed Matter Physics, Shiraz, January 2011
- ❖ Workshop on Graphene and Topological Insulators, School of Physics, IPM, Tehran, Iran, September 2010
- ❖ The 16th Annual IASBS Meeting on Condensed Matter Physics, Zanjan, Iran, May 2010
- ❖ The 10th IASBS Physics Winter School on new topics in Condensed Matter Physics, Zanjan, Iran, January- February 2010.
- ❖ Workshop on High Performance Computing (MPICH), IASBS , Zanjan, Iran, December 2009.
- ❖ The Annual Physics Conference , Esfahan, Iran, August 2009
- ❖ The Annual Physics Conference , Kashan , Iran, September 2008
- ❖ The 17th Workshop on Astronomy and Astrophysics, Maraghe, Iran, August 2008.

Computer skills:

- ❖ **Programming languages:** Fortran
 - ❖ **Mathematical software:** Mathematica, Origin, Matlab
 - ❖ **Graphical software:** Photoshop, Corel Draw
 - ❖ **Other softwares:** Microsoft office, Latex.
- Also familiar with clustering and MPI and MPICH programming.

References

Additional information is available upon request