

Mohammad Reza ATAI

PhD student of physics at Institute for Advanced Studies in Basic Sciences (IASBS)

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Education

2020_ Now: PhD Student of Physics, Optics and Photonics
Institute for Advanced Studies in Basic Sciences.

2012 _ 2019: PhD Track* Student of Physics, Soft Condensed Matter,
Institute for Advanced Studies in Basic Sciences.

2001 _ 2012 BSc of Mechanical Engineering (Unfinished)
Ferdowsi University of Mashhad

2007 _ 2011: Diploma of Natural Sciences,
National Organization for the Development of Exceptional Talents
(NODET), Mashhad, I R Iran.

***About PhD Track:**

This program is offered by IASBS, as a center of excellence in Physics in Iran. The students enrolled in this program are selected from among the best candidates in the nationwide university entrance exam and medalists of the international Physics, Astronomy and Mathematics Olympiads, through a scientific interview. This program consists of two major parts:

- 1- Course-based (5-6 years), covering all undergraduate and graduate courses.
- 2- Research-based (up to 4 years), PhD Dissertation.

The students continue to their PhD after finishing the course-based part according to the program requirements and satisfying the board of committee by proposing a research proposal.

Publications

Ataï, M R, Mostafavi Amjad, J, “RDDA Method for Characterization of Photonic Nanojets,

Conference Papers:

Ataï, M R, Rahman-Setayesh, S R, “*Effect of Global Warming on Precipitation Patterns: A Basic Model*”, **3rd Regional Conference on Climate Change and Global Warming, Keylagh, Iran** (March 2016).

Presentations

“*Effect of Global Warming on Precipitation Patterns: A Basic Model*”, **3rd Regional Conference on Climate Change and Global Warming, Keylagh, Iran** (March 2016).

I also, have given several presentations on different topics for general audience.

Awards and Honors

Ranked 10 in nation-wide PhD Entrance Exam (2020)

Ranked third in the 2nd national physical handwork competition as the head of Chista Team for designing and building a prototype of the “new cheap flexible mechanical seismograph using the moire technic” and received the award of the Deputy of I R Iran President for Science and Technology (May 2014)

Winner of the 10th national Messier observational marathon with Kasra Mokhtarpour and received the award of Vice-Presidency of Science and Technology of I R Iran (April 2011)

Selected at the first stage of the nationwide Astronomy Olympiad (2010)

Winner of the 5th regional Sufi observational marathon with Kasra Mokhtarpour (September 2009)

Winner of the 3rd regional Sufi observational marathon with Kasra Mokhtarpour (October 2007)

Admitted to NODET (Mashhad Branch) after a highly competitive nationwide exam (2007)

Teaching Experience

Graduate Courses

TA of English Department, 2019 (IASBS)

TA of English for Academic Purposes, 2017 (IASBS)

Undergraduate\General Courses:

Private Tutor, 1999 _ to date
IBC of English, 2020 to date (IranZamin)
General English, 2018-2020 (IranZamin)
TA of English, 2016 (IASBS)
TA of Mathematics 2, 2015 (IASBS)
TA of Computer Programming 1, 2014 (IASBS)
TA of General Physics 1, 2013 (IASBS)
TA of Mechanics 1, 2013 (IASBS)
Classical Mechanics, 2011 (Besat Olympiad Club)
Astronomy, 2009-2010 (NODET-Mashhad branch)

Schools and Conferences Attended

- 1- Webinar on Online Language Teaching, **IranZamin** (2021)
- 2- Several International Webinars in the Field of Language Learning (2020)
- 3- TTC, **IranZamin, Zanjan, Iran** (Ranked A) (2019)
- 4- Workshop on Lesson Planning, **IranZamin, Zanjan, Iran** (2019)
- 5- Workshop on Learner's Autonomy, **IranZamin, Zanjan, Iran** (2018)
- 6- IASBS-ICTP School on Active Matter and Chemotaxis, **IASBS, Zanjan, Iran** (May 14-25, 2016).
- 7- 21st Annual IASBS Meeting on Condensed Matter Physics & School on Complex Fluids, **IASBS, Zanjan, Iran** (May 27-29, 2015).
- 8- 22nd IPM Physics Spring Conference, **IPM, Tehran, Iran** (May 20-21, 2015).
- 9- International Workshop on Nanoscale Heat Transport, **IPM, Tehran, Iran** (April 15-16, 2015).
- 10- 20th Annual IASBS Meeting on Condensed Matter Physics and School on Soft Matter and Biological Physics, **IASBS, Zanjan, Iran** (May 27-30, 2014).
- 11- 6th English Challenge Cup, **Zanjan University, Zanjan, Iran** (February 24, 2013).
- 12- 18th Annual IASBS Physics Winter School, **IASBS, Zanjan, Iran** (February 16-20, 2013).
- 13- 6th Annual Young Mathematicians Conference, **NODET, Mashhad, Iran** (April 2009).

Skills

- Computer programming with C++
- Computer simulation

- Computer software: COMSOL Multiphysics, Mathematica, Office, LaTeX, ImageJ, and a range of utility software
- Persian language: Native (C2)
- English language: Proficient (C2, near native in receptive skills)
- Arabic language: Basic understanding of standard Arabic (A2)
- Spanish Language: Everyday language (A2)
- Friendly personality, good communication and effective team-working skills

Other Activities

- Student Member of IASBS Cultural Council (2018 _ to date)
- MC at IASBS (2012 – 2019)
- Elected as the Student Councils' member at IASBS Cultural Council (2017)
- Head of the Welcoming Committee for International Scientists and Guests of ICTP-IASBS International Conference on Structured Light, **Tehran, Iran** (2019)
- Member of the executive committee of the 20th annual IASBS Physics Winter School, **IASBS, Zanjan, Iran** (February 25-29, 2015)
- Member of the executive committee of the 19th annual IASBS Physics Winter School, **IASBS, Zanjan, Iran** (February 22-26, 2014)
- Member of the executive committee of the 17th Meeting on Research in Astronomy, **IASBS, Zanjan, Iran** (May 16-17, 2013)
- Head of the executive committee of the 1st National Student-Run Astronomy Conference, **NODET, Mashhad, Iran** (May 06, 2011)
- Member of Mashhad Astronomical Society (Toos Sky), **Mashhad, Iran** (2007-2011)
- President of Astronomical Society, **NODET, Mashhad, Iran** (2008-2010)
- Member of Astronomical Society, **NODET, Mashhad, Iran** (2007-2008)
- Member of Physical Society, **NODET, Mashhad, Iran** (2008-2009)
- Member of Student Council, **NODET, Mashhad, Iran** (2008-2009)

Contact Information

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