


# MAHA KHADEMI

Senior M.Sc Student, Condensed Matter Physics, Shahid Beheshti University

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## EDUCATION

### Shahid Beheshti University (SBU)

M.Sc. in Condensed Matter Physics

- Cumulative GPA: 4.0/4.0 via 26 credits

### Iran University of Science and Technology (IUST)

B.S. in Physics

- Cumulative GPA: 3.68/4.0 via 137 credit

### Salam Pre-University and High School

Pre-University and Diploma Certificate in Mathematics and physics

Tehran, Iran

Sep. 2019– Now

Tehran, Iran

Sep. 2015 - Sep. 2019

Tehran, Iran

Sep.2011 - Sep. 2015

## SKILLS

**programming** Mumax3, fortran90, C/C++

**Engineering and Documentation applications** MATLAB, COMSOL, Origin Pro, Microsoft Office Word, PowerPoint, Excel

**Languages** English, Persian (Native)

## RESEARCH INTERESTS

Neuromorphic Computing

Magnetism and Magnetic Materials

Spintronics

Computer vision

Machine Learning

## PROJECTS

Spin hall nano oscillators (SHNO) micromagnetic simulation and applications in neuromorphic devices

Supervisor: Dr. S.M. Mohseni

M.Sc. thesis, Tehran (2020)

A review of Quantum Cryptography and It's Optical Setups

Supervisor: Dr. M. Vahedi

B.S. Project, Tehran (2019)

A review of magneto-resistive random access memory (MRAM)

Supervisor: Dr. S.M. Mohseni

Research project for magnetism and magnetic materials course (2020)

Bio-inspired computing using nanomagnets

Supervisor: Dr. S.M. Mohseni

Research project for seminar course (2020)

## WORK EXPERIENCE

English Translator  
freelancer

Tehran, Iran  
Feb. 2018 - Now

Physics Teacher  
private teacher

Tehran, Iran  
Jun. 2017 - Sep. 2017

## HONORS AND AWARDS

- |      |                                                                          |              |
|------|--------------------------------------------------------------------------|--------------|
| 2015 | <b>Top 2%</b> of Applicants in the Nationwide Universities Entrance Exam | Tehran, Iran |
| 2018 | <b>Third</b> team of the National student debate competitions            | Tehran, Iran |
| 2018 | Member of Students Union at Iran University of Science and Technology    | Tehran, Iran |

## SELECTED COURSES

Magnetism and Magnetic Materials	20/20, (Dr. S.M. Mohseni)	Fall 2019
Advanced Measurement Techniques in Condensed Matter Physics	20/20, (Dr. S.M Mojseni / Dr A. Madani)	Fall 2020
Special Topics in Physics (Neuronal Dynamics)	20/20, (Dr. H. Eshraghi)	Spring 2017
Advanced Computational Physics	20/20 (Dr. A. Sadeghi)	Fall 2020