

Arsalan Motamed

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Education

- 2016–present **Bachelor of Electrical Engineering and Bachelor of Physics.**
Sharif University of Technology, Tehran, Iran
GPA: 19.26/20
Rank 4th out of 162 students in the EE department
Technical area of EE: Communication networks and systems

Current Works

As a member of a statistics reading group, supervised by Prof Amin Aminzadeh Gohari as well as Dr Mohammad Hossein Yassaee, I am studying about Stochastic Block Models with two of my colleagues. Besides, as a group activity we are reading the book "High-dimensional Statistics" by Prof Weinwright and preparing a solution manual for the book. (For more information about our group, you can visit our [web-page](#))

As a member of [Sharif QI group](#), under the supervision of Prof Vahid Karimipour, I am working on two projects. Reading the book "Geometry of Quantum States" by Prof Bengtsson and Prof Zyczkowski, which I am currently on chapter 7, along with another project in which I am working on Tensor Networks.

Honors and Awards

- September 2015 **Gold medal in the 11th National Olympiad on Astronomy and Astrophysics, held in Tehran, Iran.**
- December 2016 **Silver medal in the 10th International Olympiad on Astronomy and Astrophysics, held in Bhubaneswar, India.**

Selected Courses

- 20–PhD **Quantum Computation Theory**, Course project: *quantum random walk and quantum decision tree.*
- 20–PhD **Quantum Information Theory.**
- 18.5–Master **High-dimensional Probability.**
- 19.5–Master **Information and Coding Theory**, Course project: *information-theoretic limits for community detection in networks.*
- 18.5–Master **Condensed Matter Physics.**
- 19.9–Master **Advanced Statistical Mechanics.**
- 19.6–Master **Blind Source Separation and Sparse Representation of Signals.**
- 18.9 **Convex Optimization.**
- 20, 20 **Quantum Mechanics I, II.**
- 19.7, 20 **Statistical Mechanics I, II.**

(The number in the left column, indicates the score I got, out of 20. Also in case of not being an undergraduate course, the course level is written afterwards.)

Teaching Experiences

- Spring 2020 **TA of Mathematical physics I**, *instructed by Dr Ali Rezakhani.*
- Fall 2019 **TA (as a grader) of Electromagnetism**, *instructed by Dr Amin Khavasi.*
- since 2016 **Teaching Astronomy and Astrophysics Olympiad subjects**, *at national Young Scholar's Club (YSC) and top high-schools of Tehran.*

Linguistic Skills

- Persian**, *Mother tongue.*
- English**, *Advanced (preparing for the TOEFL on Nov.14).*
- Spanish**, *Elementary.*
- Arabic**, *Elementary.*

Computer Skills

Python, C, MATLAB and \LaTeX

Attended Conferences

September 2019 **The 4th TelAS Summer School in Computer Science.**

June-July 2020 **Youth in high-dimensions**, *an online conference held by ICTP.*

Outside Science

I am a guitarist in both Flamenco and Classical styles. I used to practice up to 10 hours a day. However, after entering the academic world, I look at it as a hobby and play it for fun in my spare time.