

# Ilia Abolhasani

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## Curriculum Vitae

### Personal Information

Date of Birth 10/Aug/1995  
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### Educational Background

- 2018 Master degree student in **Bioinformatics** at [Sharif University of Technology](#), **Average:** 17.16/20  
M.Sc. Thesis: A method to improve binning of Metagenomics sequence fragments by using Gene Ontology relation
- 2013–2017 Bachelor of science in **Computer Science** at [University of Science and Technology of Mazandaran\(MAZUST\)](#), **Average:** 17.15/20, **Ranked** 2<sup>nd</sup>
- 2010–2013 Diploma in field of **Mathematics & Physics** at Doctor Omid high school in Behshahr

### Awards and Honors

- 2018 **Ranked** 2<sup>nd</sup> in ACM National competitions at Minudasht
- 2017 **Ranked** 1<sup>st</sup> National competitions (12<sup>th</sup> RoboNIT) in Artificial Intelligence (Machine Vision orientation)
- 2016 & 2017 **Awarded** as outstanding student of MAZUST in Computer Science field
- 2016 **Ranked** 4<sup>th</sup> National competitions (4<sup>th</sup> Khayam robotic in line follower robot)
- 2015 Certificates of appreciation for student & cultural activity at MAZUST

### Selected Projects & Codes

- 2021 Improved Metagenomic binning by using gene ontology and statistical analysis on "2nd CAMI Human Microbiome Project Dataset"
- 2020 Gene expression patterns distinguish breast carcinomas from normal breast tissues. [report](#)

- 2019 Using statistical null hypothesis testing to show that the distribution of proteins that works together has significantly difference with proteins that not works together in Gene Ontology Namespaces.
- 2018 Employing image processing techniques for cancer detection using Microarray images
- 2018 Object detection with YOLO in ROS for HSR Toyota robot simulation
- 2017 University course scheduling with considering all the possibilities with hybrid Genetic-Simulated annealing algorithm
- 2017 Accuracy comparison of supervised and semi-supervised methods in artificial neural network for EEG brain waves
- 2016 Compare wireless sensor network security design a balanced incomplete symmetric key distribution methods against attacks capture the knot
- 2016 Car multi-objective optimization with NSGA II
- 2015 Implementation of 2048 game with 8086 Assembly language

## Teaching Experiences

- 2021 Teacher assistant of **Bioinformatics Algorithms** course at Sharif
- 2021 Teacher assistant of **Analysis of Biological Networks** course at Sharif
- 2019 Teacher assistant of **An introduction to Bioinformatics** course at Sharif
- 2017 Teacher assistant of **fundamentals of computability theory** course at MAZUST
- 2016 Teacher assistant of **Database design** course at MAZUST
- 2014–2016 Teacher assistant of **computer fundamentals and programming** course at MAZUST

## Scientific and Executive Experiences

- 2017 One of main members of robotics association at MAZUST
- 2017 One of executive members of @home robot workshop invited KameRaider team from Japan at MAZUST
- 2016–2017 One member of robotics team at MAZUST
- 2015–2016 One of founders of cultural association at MAZUST
- 2015–2016 Leader of cultural association at MAZUST
- 2015–2017 One of executive members of several festivals at MAZUST
- 2015 Executive director of a festival at the MAZUST
- 2014–2015 One of main members of robotic association at MAZUST
- 2013–2014 Active member of the robotics association at MAZUST

## Professional Skills

Programming language **Python**(advanced), **Matlab**(advanced), **C#**(advanced), **SQL**(intermediate), **C++**(intermediate), **Java**(intermediate), **R**(intermediate), **PHP**(familiar), **HTML & CSS**(familiar), **Assembly**(familiar)

Database	Microsoft SQL Server, MySQL
OS	Linux (Ubuntu), Windows
SVC	Git, SVN
Packages and frameworks	Cytoscape, .NET MVC & API programming, OpenCV & Emgu-CV, Symfony & Doctrine ORM & Migration, IPython & Bioconda & Pandas & Numpy & Keras & Multiprocessing & Matplotlib & Sklearn, ggplot2, Office & Mendeley & L <sup>A</sup> T <sub>E</sub> X
Artificial Intelligence	Deep learning, Statistical data analysis, Single-objective & Multi-objective optimization, Artificial Neural Network, Image processing, Machine vision

## Publications

### Conference Paper

- 2018 Malihe Danesh, **Ilia Abolhasani**, Majid Sohrabi: "Using Improved ANFIS based whale optimization algorithm for smart phone malware detection", Accepted in [The 5<sup>th</sup> International conference on Electrical engineering and computer](#)
- 2017 Majid Sohrabi, **Ilia Abolhasani**, Mostafa HajiaghaeiKeshteli, "[Solving the allocation of customers to potential distribution centers in supply chain networks by GA, KA, SA](#)", Accepted in [10<sup>th</sup> International conference of Iranian operations research society](#)

## Languages Skills

**Persian**(Native),  
**English**(High intermediate),  
**Arabic**(Intermediate)