Behrad Mansouri

ヹ Email | **?** Github

Research Interests

Thermodynamics Fluid Mechanics Heat Transfer

EDUCATION

Amirkabir University of Technology (Tehran Polytechnic)

B.Sc. in Mechanical Engineering Supervisor: Dr. Mohsen Bahrami September 2019 - present

GPA: 3.64/4

Allameh Tabatabaei High School

Diploma in Mathematics and Physics

September 2016 - June 2019

GPA: 19.32/20

GRE General Test Score

Verbal Reasoning: 158 Quantitative Reasoning: 168 September 2022

TECHNICAL SKILLS

Pyhton: Numpy, jupyter, Matplotlib

ML/AI: Tensorflow, Keras

Misc: Bash script, LATEX

LANGUAGE SKILLS

Persian: Native English: IELTS 8/9

Engineering Software EES, MSC Adams, catia

Band scores: Speaking 7.5, Listening 9, Reading 8.5, Writing 7

TEACHING EXPERIENCE

Thermodynamics (I) Fall 2021

Teaching Assistant Instructor: Dr. Hashem Moradi

Notable Coursework Projects

Fuels & Combustion Spring 2022

Instructor: Dr. Ehsan Amani

• Preliminary design of a gas turbine combustor using EES

Heat Transfer (I) Spring 2022

Instructor: Dr. Behzad Baghapour

• Heat transfer analysis of a falling hollow sphere

• Generalized solution for variable conductivity transient conduction

Machine Learning

Kaggle Dogs vs. Cats classification with a convolutional neural network

Summer 2022

e-mail, homepage

Instructor: Dr. Behzad Baghapour

Classification of natural gas consumption of household consumers with machine learning

Instructor: Dr. Nader Montazerin

Fall 2022

ACHIEVEMENTS AND AWARDS

Achieved top 0.4% place among all applicants of the nationwide university entrance exam for B.Sc. in Mathematics 2019

and Engineering (658th out of Approximately 160,000 participants)

Admitted in the First stage Nation-wide Mathematics contest of "Olympiad" 2017

NOTABLE COURSES

Thermodynamics (I): A+, Thermodynamics (II): A, Fuels & Combustion: A

Fluid Mechanics (I): A, Heat Transfer (I): A+

References

Dr. Mohsen Bahrami - Professor

Department of Mechanical Engineering, Amirkabir University of Technology

Dr. Hashem Moradi - Lecturer e-mail

Department of Mechanical Engineering, Amirkabir University of Technology