

# Curriculum Vitae

Dr. Shahryar Motamedi

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## Online Profiles

GitHub: [github.com/shmotamedi](https://github.com/shmotamedi)

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## Education

### Ph.D. in Astrophysics

2015–2024

Institute for Advanced Study of Basic Sciences (IASBS), Zanzan, Iran

Advisor: Prof. Hosein Haghi ([haghi@iasbs.ac.ir](mailto:haghi@iasbs.ac.ir))

### M.Sc. in Space Engineering

2010–2013

Sharif University of Technology (SUT), Tehran, Iran

Advisor: Prof. Seid H. Pourtakdoust ([pourtak@sharif.edu](mailto:pourtak@sharif.edu))

### B.Sc. in Physics

2006–2010

Sharif University of Technology (SUT), Tehran, Iran

## Research Experience

### Research Assistant

IASBS, Zanzan, Iran

Studied and compared dynamical friction time-scales in Milgromian versus equivalent Newtonian dynamics.

### Research Assistant

SUT, Tehran, Iran

Investigated chaos in the relativistic restricted three-body problem.

### Visiting Researcher

University of Science and Technology of China (USTC), Hefei, China, 2019

Developed methods for comparing Modified Newtonian Dynamics (MOND) with dark matter models.

### Predoc Researcher

RCISP, Tehran, Iran, 2014

Designed an advanced high-precision orbit propagator using perturbation techniques, integrating physics and engineering approaches.

## Honors & Awards

**Ph.D. Entrance Exam:** Ranked first in the IASBS Ph.D. entrance examination.

**M.Sc. Entrance:** Awarded a full graduate scholarship at SUT, with direct admission to graduate studies without examination for top-ranked national students.