

# Curriculum Vitae

Dr. Shahryar Motamedi

**Birth:** July 23, 1987  
**Nationality:** Iranian  
**Address:** Tehran, Iran  
**Mobile:** +98 912 489 8825  
**Email:** shahryar.mtmd@gmail.com

## Summary

Astrophysicist with a Ph.D. in Astrophysics, specializing in galactic dynamics, modified gravity, and solar system physics. Strong background in analytical modeling, numerical simulations, and high-performance scientific computing. Research contributions span Milgromian dynamics, relativistic three-body chaos, solar/stellar dynamics, and space engineering.

## Online Profiles

GitHub: [github.com/shmotamedi](https://github.com/shmotamedi)  
ResearchGate: [researchgate.net/profile/Shahryar-Motamedi](https://researchgate.net/profile/Shahryar-Motamedi)  
LinkedIn: [linkedin.com/in/shahryar-motamedi-26b169b7](https://linkedin.com/in/shahryar-motamedi-26b169b7)

## Education

<b>Ph.D. in Astrophysics</b> Institute for Advanced Study of Basic Sciences (IASBS), Zanzan, Iran Advisor: Prof. Hosein Haghi ( <a href="mailto:haghi@iasbs.ac.ir">haghi@iasbs.ac.ir</a> )	2015–2024
<b>M.Sc. in Space Engineering</b> Sharif University of Technology (SUT), Tehran, Iran Advisor: Prof. Seid H. Pourtakdoust ( <a href="mailto:pourtak@sharif.edu">pourtak@sharif.edu</a> )	2010–2013
<b>B.Sc. in Physics</b> Sharif University of Technology (SUT), Tehran, Iran	2006–2010

## Research Experience

<b>Research Assistant</b> Studied and compared dynamical friction timescales in Milgromian vs. equivalent Newtonian dynamics.	IASBS, Zanzan, Iran
<b>Research Assistant</b> Investigated chaos in the relativistic restricted three-body problem.	SUT, Tehran, Iran
<b>Visiting Researcher</b> Developed methods to compare Modified Newtonian Dynamics (MOND) with dark matter models.	USTC, Hefei, China, 2019
<b>Predoc Researcher</b> Designed a high-precision orbit propagator using perturbation techniques, integrating physics and engineering approaches.	RCISP, Tehran, Iran, 2014

## Honsrs & Awards

**Ph.D. Entrance Exam:** Ranked first in the IASBS Ph.D. entrance examination.  
**M.Sc. Admission:** Awarded a full graduate scholarship at SUT with direct admission (no entrance exam) for top-ranked national students.