

# Curriculum Vitae

## Shahryar Motamed

**Birth:** July 23, 1987

**Nationality:** Iranian

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## Summary

Astrophysicist specializing in galactic dynamics, modified gravity, and solar system physics with experience in analytical modeling, numerical simulations, and high-performance scientific computing. Contributions include Milgromian dynamics, relativistic three-body chaos, solar/stellar dynamics, and space engineering.

## Online Profiles

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

ResearchGate: [researchgate.net/profile/Shahryar-Motamed](https://researchgate.net/profile/Shahryar-Motamed)

LinkedIn: [linkedin.com/in/shahryar-motamed-26b169b7](https://linkedin.com/in/shahryar-motamed-26b169b7)

## Education

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

## Research Background

Research Assistant	IASBS, Zanjan, Iran
Compared dynamical-friction timescales in Milgromian vs. Newtonian dynamics.	
Research Assistant	SUT, Tehran, Iran
Studied chaos in the relativistic restricted three-body problem.	
Visiting Researcher	USTC, Hefei, China (2019)
Developed MOND–DM comparison methods.	
Predoc Researcher	RCISP, Tehran, Iran (2014)
Designed high-precision orbit propagators using perturbation theory.	

## Honors & Awards

Ph.D. Entrance Exam — Ranked first in IASBS entrance exam.

M.Sc. Admission — Awarded full scholarship at SUT with direct admission.