

Curriculum Vitae

Shahryar Motamedi

Birth: July 23, 1987
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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/shmotamedi
ResearchGate: researchgate.net/profile/Shahryar-Motamedi
LinkedIn: linkedin.com/in/shahryar-motamedi-26b169b7

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)	
M.Sc. in Space Engineering	2010–2013
Sharif University of Technology (SUT), Tehran, Iran	
Advisor: Prof. S. H. Pourtakdoust (pourtak@sharif.edu)	
B.Sc. in Physics	2006–2010
Sharif University of Technology (SUT), Tehran, Iran	

Research Background

Research Assistant	IASBS, Zanzan, 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.