

Curriculum Vitae

Dr. Shahryar Motamedi

Birth: July 23, 1987
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Summary

Astrophysicist with Ph.D. in Astrophysics, specializing in galactic dynamics, modified gravity, and solar plasma physics. Skilled in analytical modeling, numerical simulations, and scientific computing. Research spans Milgromian dynamics, relativistic three-body chaos, and MHD wave propagation.

Online Profiles

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

Education

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

Research Experience

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| Research Assistant Studied and compared dynamical friction timescales in Milgromian vs. equivalent Newtonian dynamics. | IASBS, Zanzan, Iran |
| Research Assistant Investigated chaos in the relativistic restricted three-body problem. | SUT, Tehran, Iran |
| Visiting Researcher Developed methods to compare Modified Newtonian Dynamics (MOND) with dark matter models. | USTC, Hefei, China, 2019 |
| Predoc Researcher 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.