
Curriculum Vitae of Mohammad Hossein Namjoo

Personal Information

First Name: Mohammad Hossein

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Employment and Education

Dates	Position	Institute
2022-present	Associate Professor	School of Astronomy, IPM, Tehran, Iran
2018-2022	Assistant Professor	School of Astronomy, IPM, Tehran, Iran
2016-2018	Postdoctoral fellow	MIT, Cambridge, MA, USA
2015-2016	Postdoctoral fellow	Harvard University, Cambridge, MA, USA
2014-2015	Postdoctoral fellow	University of Texas at Dallas, Dallas, TX, USA
2013-2014	Postdoctoral fellow	School of Astronomy, IPM, Tehran, Iran
2010 - 2013	Ph.D	School of Physics, IPM, Tehran, Iran
2007-2009	M.Sc	University of Tehran, Tehran, Iran
2003-2007	B.Sc	Sharif University of Technology, Tehran, Iran

Research Interests

Theoretical cosmology

Intersections of cosmology and particle physics

Philosophy and Philosophy of Science

Honors

1403 Abu Reihan Award of Iran Academy of Science

2022 ICTP Prize

Statistics

(according to Google Scholar, updated on 4-May-2026)

h-index: 23

Citations: 2193

Publications

1. M. H. Namjoo, "No-go theorem for the mass-radius relation of solitons," *Phys. Rev. D* 113, 043539 (2026), [doi:10.1103/g218-8kz3](https://doi.org/10.1103/g218-8kz3).
2. H. S. Modirzadeh, R. Moti, and M. H. Namjoo, "Non-relativistic effective theories for fields with general potentials and their implications for cosmology," *JCAP* 03, 076 (2026), [doi:10.1088/1475-7516/2026/03/076](https://doi.org/10.1088/1475-7516/2026/03/076).
3. M. H. Namjoo, "Bayesian forecasting with information theory," (2024).
4. M. H. Namjoo and B. Nikbakht, "Non-Gaussianity consistency relations and their consequences for the peaks," *JCAP* 08, 005 (2024), [doi:10.1088/1475-7516/2024/08/005](https://doi.org/10.1088/1475-7516/2024/08/005).
5. M. H. Namjoo, "One consistency relation for all single-field inflationary models," *JCAP* 05, 041 (2024), [doi:10.1088/1475-7516/2024/05/041](https://doi.org/10.1088/1475-7516/2024/05/041).
6. S. Hooshangi, M. H. Namjoo, and M. Noorbala, "Tail diversity from inflation," *JCAP* 09, 023 (2023), [doi:10.1088/1475-7516/2023/09/023](https://doi.org/10.1088/1475-7516/2023/09/023).
7. S. Hooshangi, A. Talebian, M. H. Namjoo, and H. Firouzjahi, "Multiple field ultraslow-roll inflation: Primordial black holes from straight bulk and distorted boundary," *Phys. Rev. D* 105, 083525 (2022), [doi:10.1103/PhysRevD.105.083525](https://doi.org/10.1103/PhysRevD.105.083525).
8. S. Hooshangi, M. H. Namjoo, and M. Noorbala, "Rare events are nonperturbative: Primordial black holes from heavy-tailed distributions," *Phys. Lett. B* 834, 137400 (2022), [doi:10.1016/j.physletb.2022.137400](https://doi.org/10.1016/j.physletb.2022.137400).
9. B. Salehian, H. Y. Zhang, M. A. Amin, D. I. Kaiser, and M. H. Namjoo, "Beyond Schrödinger-Poisson: nonrelativistic effective field theory for scalar dark matter," *JHEP* 09, 050 (2021), [doi:10.1007/JHEP09\(2021\)050](https://doi.org/10.1007/JHEP09(2021)050).
10. F. Azhar, A. H. Guth, and M. H. Namjoo, "A Bayesian View on the Dr. Evil Scenario," (erratum: *Erkenntnis* 89, 2543 (2024)), [doi:10.1007/s10670-022-00622-x](https://doi.org/10.1007/s10670-022-00622-x).
11. F. Azhar and M. H. Namjoo, "Spacetime singularities and indeterminism," *Synthese* 206, 93 (2025), [doi:10.1007/s11229-025-05178-1](https://doi.org/10.1007/s11229-025-05178-1).
12. M. H. Namjoo and R. Ebadi, "Resonant instability of axion cloud," *Iran. J. Phys. Res.* 20, 125-137 (2020), [doi:10.47176/ijpr.20.1.38781](https://doi.org/10.47176/ijpr.20.1.38781).
13. B. Salehian, M. H. Namjoo, and D. I. Kaiser, "Effective theories for a nonrelativistic field in an expanding universe: Induced self-interaction, pressure, sound speed, and viscosity," *JHEP* 07, 059 (2020), [doi:10.1007/JHEP07\(2020\)059](https://doi.org/10.1007/JHEP07(2020)059).
14. M. H. Namjoo, T. R. Slatyer, and C. L. Wu, "Enhanced n-body annihilation of dark matter and its indirect signatures," *JHEP* 03, 077 (2019), [doi:10.1007/JHEP03\(2019\)077](https://doi.org/10.1007/JHEP03(2019)077).

15. H. Deng, M. P. Hertzberg, M. H. Namjoo, and A. Masoumi, "Can Light Dark Matter Solve the Core-Cusp Problem?," *Phys. Rev. D* 98, 023513 (2018), [doi:10.1103/PhysRevD.98.023513](https://doi.org/10.1103/PhysRevD.98.023513).
16. Y. F. Cai, X. Chen, M. H. Namjoo, M. Sasaki, D. G. Wang, and Z. Wang, "Revisiting non-Gaussianity from non-attractor inflation models," *JCAP* 05, 012 (2018), [doi:10.1088/1475-7516/2018/05/012](https://doi.org/10.1088/1475-7516/2018/05/012).
17. M. H. Namjoo, A. H. Guth, and D. I. Kaiser, "Relativistic Corrections to Nonrelativistic Effective Field Theories," *Phys. Rev. D* 98, 016011 (2018), [doi:10.1103/PhysRevD.98.016011](https://doi.org/10.1103/PhysRevD.98.016011).
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19. X. Chen, C. Dvorkin, Z. Huang, M. H. Namjoo, and L. Verde, "The Future of Primordial Features with Large-Scale Structure Surveys," *JCAP* 11, 014 (2016), [doi:10.1088/1475-7516/2016/11/014](https://doi.org/10.1088/1475-7516/2016/11/014).
20. X. Chen, M. H. Namjoo, and Y. Wang, "Probing the Primordial Universe using Massive Fields," *Int. J. Mod. Phys. D* 26, 1740004 (2016), [doi:10.1142/S0218271817400041](https://doi.org/10.1142/S0218271817400041).
21. X. Chen, M. H. Namjoo, and Y. Wang, "Quantum Primordial Standard Clocks," *JCAP* 02, 013 (2016), [doi:10.1088/1475-7516/2016/02/013](https://doi.org/10.1088/1475-7516/2016/02/013).
22. X. Chen, M. H. Namjoo, and Y. Wang, "On the equation-of-motion versus in-in approach in cosmological perturbation theory," *JCAP* 01, 022 (2016), [doi:10.1088/1475-7516/2016/01/022](https://doi.org/10.1088/1475-7516/2016/01/022).
23. M. H. Namjoo, A. A. Abolhasani, H. Assadullahi, S. Baghran, H. Firouzjahi, and D. Wands, "Expected dipole asymmetry in CMB polarization," *JCAP* 05, 015 (2015), [doi:10.1088/1475-7516/2015/05/015](https://doi.org/10.1088/1475-7516/2015/05/015).
24. X. Chen, M. H. Namjoo, and Y. Wang, "Models of the Primordial Standard Clock," *JCAP* 02, 027 (2015), [doi:10.1088/1475-7516/2015/02/027](https://doi.org/10.1088/1475-7516/2015/02/027).
25. H. Assadullahi, H. Firouzjahi, M. H. Namjoo, and D. Wands, "CMB hemispherical asymmetry from non-linear isocurvature perturbations," *JCAP* 04, 017 (2015), [doi:10.1088/1475-7516/2015/04/017](https://doi.org/10.1088/1475-7516/2015/04/017).
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29. H. Firouzjahi and M. H. Namjoo, "Jump in fluid properties of inflationary universe to reconcile scalar and tensor spectra," Phys. Rev. D 90, 063525 (2014), [doi:10.1103/PhysRevD.90.063525](https://doi.org/10.1103/PhysRevD.90.063525).
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33. X. Chen, H. Firouzjahi, M. H. Namjoo, and M. Sasaki, "Fluid Inflation," JCAP 09, 012 (2013), [doi:10.1088/1475-7516/2013/09/012](https://doi.org/10.1088/1475-7516/2013/09/012).
34. M. Alishahiha, H. Firouzjahi, K. Koyama, and M. H. Namjoo, "Cosmological perturbations in inflationary models with anisotropic space-time scaling in a Lifshitz background," Phys. Rev. D 88, 103512 (2013), [doi:10.1103/PhysRevD.88.103512](https://doi.org/10.1103/PhysRevD.88.103512).
35. M. H. Namjoo, S. Baghran, and H. Firouzjahi, "Hemispherical Asymmetry and Local non-Gaussianity: a Consistency Condition," Phys. Rev. D 88, 083527 (2013), [doi:10.1103/PhysRevD.88.083527](https://doi.org/10.1103/PhysRevD.88.083527).
36. S. Baghran, M. H. Namjoo, and H. Firouzjahi, "Large Scale Anisotropic Bias from Primordial non-Gaussianity," JCAP 08, 048 (2013), [doi:10.1088/1475-7516/2013/08/048](https://doi.org/10.1088/1475-7516/2013/08/048).
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38. X. Chen, H. Firouzjahi, M. H. Namjoo, and M. Sasaki, "A Single Field Inflation Model with Large Local Non-Gaussianity," EPL 102, 59001 (2013), [doi:10.1209/0295-5075/102/59001](https://doi.org/10.1209/0295-5075/102/59001).
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