$\underline{\text{CURRICULUM VITAE}}$

Javad Komijani

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Education and Research Experience

2021—	Postdoctoral Researcher, ETH Zurich
2019-2020	Postdoctoral Researcher, University of Tehran
2017-2018	Postdoctoral Researcher, University of Glasgow
2015-2017	Postdoctoral Researcher, Technical University of Munich
2010-2015	Ph.D. in Physics, Washington University in St. Louis
Thesis Title Advisors	Topics in Lattice Gauge Theory and Theoretical Physics Prof. Claude Bernard and Prof. Carl M. Bender
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Teaching Experience

Fall 2019	Workshop on Lattice QCD (with Monte Carlo Simulations), Instructor, University of Tehran
Winter 2018	C Programing under Linux, Teaching Assistant, University of Glasgow
Spring 2016	Elementary Particle Physics, Teaching Assistant, Technical University of Munich
Spring 2016	Quantum Mechanics, Teaching Assistant, Technical University of Munich
Fall 2015	Quantum Field Theory, Teaching Assistant, Technical University of Munich
Spring 2015	Statistical Mechanics, Teaching Assistant, Washington University in St. Louis
Fall 2013	Quantum Mechanics, Teaching Assistant, Washington University in St. Louis
Fall 2012	$Physics\ I,$ Teaching Assistant, Washington University in St. Louis
Spring 2011	Physics II, Teaching Assistant, Washington University in St. Louis
Spring 2011	Special Relativity, Teaching Assistant, Washington University in St. Louis
Spring 2006	Engineering Mathematics, Teaching Assistant, University of Tehran
Spring 2006	$Electronics\ Lab\ I,$ Teaching Assistant, University of Tehran
Fall 2005	Engineering Mathematics, Teaching Assistant, University of Tehran
Summer 2005	Electronics Lab II, Teaching Assistant, University of Tehran

Computer Skills

Python, Cython, C/C++, Bash

MATLAB, Mathematica

Public Scripts

gauge_tools A Cython/Python package for Monte Carlo simulations of gauge theories.

meson_mass A Python package for mesons masses from lattice-QCD simulations.

Selected Publications

- [1] J. Komijani, P. Petreczky and J. H. Weber, "Strong coupling constant and quark masses from lattice QCD," *Prog. Part. Nucl. Phys.* 113, 103788 (2020) [arXiv:2003.11703] INSPIRE-HEP entry
- [2] C.M. Bender, J. Komijani, Q. Wang, "Nonlinear eigenvalue problems for generalized Painlevé equations," J. Phys. A: Math. and Theor. 52, 315202 (2019) [arXiv:1903.10640]
- [3] C.T.H. Davies *et al.*, "Determination of the quark condensate from heavy-light current-current correlators in full lattice QCD," *Phys. Rev. D* 100, 034506 (2019) [arXiv:1811.04305] INSPIRE-HEP entry
- [4] A. Bazavov *et al.*, "Up-, down-, strange-, charm-, and bottom-quark masses from four-flavor lattice QCD," *Phys. Rev. D 98*, 054517 (2018) [arXiv:1802.04248] INSPIRE-HEP entry
- [5] A. Bazavov *et al.*, "*B* and *D*-meson leptonic decay constants from four-flavor lattice QCD," *Phys. Rev. D 98*, 074512 (2018) [arXiv:1712.09262] INSPIRE-HEP entry
- [6] N. Brambilla , J. Komijani, A.S. Kronfeld, A. Vairo, "Relations between Heavy-light Meson and Quark Masses," Phys. Rev. D 97, 034503 (2018) [arXiv:1712.04983] INSPIRE-HEP entry
- [7] J. Komijani, "A discussion on leading renormalon in the pole mass," *JHEP 1708, 062 (2017)* [arXiv:1701.00347] INSPIRE-HEP entry
- [8] C.M. Bender and J. Komijani, "Painlevé Transcendents and \mathcal{PT} -Symmetric Hamiltonians," J. Phys. A: Math. and Theor. 48, 475202 (2015) [arXiv:1502.04089]
- [9] A. Bazavov *et al.*, "Charmed and light pseudoscalar meson decay constants from four-flavor lattice QCD with physical light quarks," *Phys. Rev. D 90*, 074509 (2014) [arXiv:1407.3772] INSPIRE-HEP entry
- [10] C.M. Bender, A. Fring and J. Komijani, "Nonlinear Eigenvalue Problems," J. Phys. A: Math. and Theor. 47, 235204 (2014) [arXiv:1401.6161]

[11] C. Bernard and J. Komijani, "Chiral Perturbation Theory for All-Staggered Heavy-Light Mesons," *Phys. Rev. D* 88, 094017 (2013) [arXiv:1309.4533] INSPIRE-HEP entry

References

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Andreas S. Kronfeld Fermi National Accelerator Laboratory, ask__at__fnal.gov

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