



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 6769

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Matematica Federico Enriques dell'Università degli Studi di Milano**

Scientist- in - charge: **Prof. Niels Benedikter**

Seyed Reza Ghazanfari

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Ghazanfari
Name	Seyed Reza

PRESENT OCCUPATION

Appointment	Structure
Programmer/Researcher	Freelance

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree			
Specialization			
PhD	Solid State Physics	Yazd University	2017
Master	Theoretical Physics	Kurdistan University	2010
Degree of medical specialization			
Degree of European specialization			
Other			



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date registration	of Association	City
2009	Physics Society of Iran (PSI)	Tehran

FOREIGN LANGUAGES

Languages	level of knowledge
English	Fluent
Farsi	Native
Japanese	Conversational
German	Basic

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2010	National Nano science association award for thesis in Graphen Nano ribbons
2012	Azad University award for publication in Nano Science

TRAINING OR RESEARCH ACTIVITY

description of activity
<p>My main research areas were in computational study of strongly correlated systems and many-body condensed matter physics. I have experience in the 2D numerical tensor network method, infinite projected entangled pair states (iPEPS), and perturbative continuous unitary transformation (PCUT) algorithm.</p> <p>Beside my background in numerical techniques, I did my Master in theoretical condensed matter physics and had a full course in theoretical many-body particles during the first year of my PhD studies.</p>

PROJECT ACTIVITY

Year	Project
2020-2022	Improvement of tensor network methods and its application to classical and quantum spin systems (as a postdoctoral researcher at the University of Tokyo)

PATENTS

Patent



CONGRESSES AND SEMINARS

Date	Title	Place
Nov 2022	2 nd international symposium on trans-scale quantum science	The University of Tokyo
Feb 2022	Entanglement in Strongly correlated systems	Benasque, Spain
July 2019	Computational approaches to quantum many body problems (CAQMP)	ISSP, Kashiwa, Japan.

PUBLICATIONS

Books

Articles in reviews
Cubic ferromagnet and emergent U(1) symmetry on its phase boundary Phys. Rev. B 107, 224406
Quantum Phase Transition of Kitaev Model on Kagome Lattice in Presence of Ising Perturbation. Iranian Journal of Applied Physics, 9, 1, 2019, 59-69
Topological phase transition in the field induced Kitaev model on the Kagome lattice. Physica B: Condensed Matter, 2017, 521: p. 221-229.
Transfer Matrix Approach to One-Dimensional Electron Transport in Graphene Sheets with Piecewise Constant Potentials. Acta Physica Polonica A, 2013, 123(1): p. 148-151.

Congress proceedings

OTHER INFORMATION

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: Shiraz (Iran), 8/21/2024