



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 6292

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 Fisica**

Scientist- in - charge: **prof. Enrico Prati**

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Monzani
Name	Francesco

PRESENT OCCUPATION

Appointment	Structure	Period
External collaborator	Dipartimento di Fisica, UNIMI	2th February 2024 - present

EDUCATION AND TRAINING

Degree	Course of studies	University	Period
Master degree	Mathematics	Università di Padova	October 2018 - July 2020
PhD	Mathematics	Università statale di Milano	Novemebr 2020 - January 2024 (thesis submission 31th January 2024)

FOREIGN LANGUAGES

Language	Level
English	C1
Spanish	B1

COMPUTER SKILLS

Operating systems	Windows, Linux
Coding	Python, C, Julia, Matlab, Mathematica, Java, Qiskit



STAGES AND VISITS

Year	Description
2023	Institution: Dipartimento di Fisica, UNIMI Host: prof. Enrico Prati Activity: research on quantum computing, quantum algorithms and mathematical formalisation of neural networks Period: October 2023 - January 2024
2022	Institution: Dipartimento di Matematica e Fisica, Univ. Roma 3 Host: prof.ssa Michela Procesi Activity: research on infinite dimensional dynamical systems Period: 18-22 April 2022

WORKSHOPS AND SCHOOLS

Date	Title	Place
December 2023	High performance and quantum computing	Cineca, Bologna
November 2023	Brainstorming day: open problems in quantum machine learning	UNIMI, Milano
July 2023	Wave Turbulence Summer school	Simon foundation, MIT, Cambridge
July 2023	School on interaction between dynamical systems and partial differential equations	Centro de Recerca Matematica, Barcellona
May 2022	Hamiltonian and dispersive PDE's	Roma
July 2022	Wave Turbulence Summer school	Simon foundation, Torino
December 201	Quantum before Christmas	UNIMI, Milano
July 2021	Wave Turbulence Summer school	Simon foundation, Paris (remote)

CONFERENCES

Date	Title	Place
Padua 2023	New Frontiers of Celestial Mechanics: theory and applications	UNIPD, Padova
September 2022	Hamiltonian and dispersive PDE's	Pisa
June 2022	Normal form and splitting methods	Portnichet, France
June 2022	Ypatia	Cnrs-Indam, Roma
May 2022	UMI Phd meeting	UNIPD, Padova



SCIENTIFIC COMPETITIONS

Date	Title	Place
March - April 2023	ECMI 2023 Student Competition	UNIMI, Milano
September 2021	Kelvins - ESA's Advanced Concepts Competitions. Stardust-R Andrea Milani Challenge	Remote

POSTERS AND TALKS

Date	Title	Place
July 2023	Almost global existence for semilinear PDE's on higher dimensional domains. Poster presentation	School on interaction between dynamical systems and partial differential equations. Centro de Recerca Matematica
June 2022	Reducibility on higher dimensional domains. Short talk	Normal form and splitting method, Portnichet

CONFERENCES ORGANISATION

Date	Title	Place
December 2023	PhD ² Days	UNIMI, Milano

PROJECT ACTIVITY

Year	Project
2021-2023	Member of the PRIN project "Hamiltonian and dispersive PDE's"

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2023	Travel grant. Description: travel and accomodation refund for the "Summer School on Wave Turbulence", MIT, Cambridge
2023	Travel grant. Description: free accomodation and registration for the "School on interaction between dynamical systems and partial differential equations", Centro de Recerca Matematica, Barcellona}
2021	Second place at Kelvins - ESA's Advanced Concepts Competitions, Stardust-R Andrea Milani Challenge

REVIEW ACTIVITY

Reviewer for the Journal of Mathematical Analysis and Applications
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PREPRINTS

F. Monzani, E. Prati. *Universality conditions of unified classical and quantum reservoir computing*. arXiv:2401.15067

D. Bambusi, R. Feola, B. Langella, F. Monzani. *Almost global existence for some Hamiltonian PDEs on manifolds with globally integrable geodesic flow*. arXiv:2402.00521

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: Milano, 2/02/2024