

Curriculum Vitae

Updated

September 1, 2025

Personal information

Name / Surname

Personal Email

Nationality

Date of birth

Chiara Pezzotti

chiara.pezzotti@uniroma1.it

Italian

Current Position

Date

Institution

Position

Main activity

Field of research

November 2022 – present

Department of Chemical, Materials and Environmental Engineering – University of Rome La Sapienza

PhD Student

Research

Stochastic processes, statistical mechanics, fluid dynamics, soft matter

Education

Date

Institution

Degree awarded

Grade

Thesis

October 2022

University of Rome La Sapienza

Master's Degree in Chemical Engineering

110 cum laude/110

Stochastic modelling of chemical reactions and transport-mediated chemical kinetics with applications to thermalization and biology

Date

Institution

Degree awarded

Grade

Thesis

October 2020

University of Rome La Sapienza

Bachelor's Degree in Chemical Engineering

110 cum laude/110

Temperature control of surface phonon polaritons in molybdenum trioxide on vanadium dioxide

Awards, Scholarships and Fundings

Date

Recognition

Date

Award

Date

Award

Date

Award

Date

Award

2024

Outstanding graduate (Sapienza University of Rome), honored in the presence of the President of the Italian Republic

2024

Start-up Research Funding (University of Rome la Sapienza)

2023

PhD Research Mobility Grant (University of Rome la Sapienza)

2023

Start-up Research Funding (University of Rome la Sapienza)

2020

Merit Award – Seasonal School (Il Talento all'Opera, Sant'Anna University, Pisa)

Date	2022
Program	Excellent graduate – Master’s Degree (Sapienza University of Rome)
Date	2020
Program	Excellence Program – Master’s Degree (Sapienza University of Rome)
Date	2020
Program	Excellent graduate – Bachelor’s Degree (Sapienza University of Rome)
Date	2018
Program	Excellence Program – Bachelor’s Degree (Sapienza University of Rome)
Date	Each academic year
Award	Exam Bonus (Sapienza University of Rome)
Date	2017–2018
Scholarship	University Scholarship (INPS)
Date	2019–2020
Scholarship	University Scholarship (INPS)
Date	2020–2021
Scholarship	University Scholarship (INPS)

Scientific Skills

Main skills	Hydromechanic description of fluid-particle interactions
Main skills	Theoretical models in discrete mechanics and thermodynamics
	Stochastic processes applied to chemistry and biology
	Laboratory methods in fluorescence microscopy
	Stochastic methods for studying transport phenomena and reactive systems

IT Skills

Operating systems	Linux/Ubuntu, Windows, macOS
Software packages	LaTeX, Inkscape, GIMP, Gnuplot, Microsoft Office, Libre Office
Simulation and scientific computing tools	Matlab, Comsol Multiphysics, Mathematica, Pro-II, Fortran, g3data, ImageJ
Programming languages	Fortran, Python

Language Skills

Mother tongue	Italian
Language	English
Reading skills	Excellent
Writing skills	Excellent
Speaking skills	Excellent
Time spent in UK	4 months (January–June 2024, PhD mobility at University College London)

Scientific Training Activities

Date	October 2020
Place	Online
Institution	Scuola Superiore Sant’Anna
Course	Photons: Photonic Technologies for Sensing Applications

Date	June 2024
Place	London (UK)
Institution	Institute of Physics
Course	Advanced School in Liquids and Complex Fluids: Solutions in the Spring
Activity	Poster presentation
Title of the intervention	<i>Anomalous and Biased Nanoparticles Motion in Alginate Hydrogels</i>
Date	February 2025
Place	Rome (IT)
Institution	University of Rome la Sapienza
Course	Winter school on Statistical Mechanics, Nonequilibrium Processes and Probability
Activity	Short talk
Title of the intervention	<i>Diffusion in complex fluids through hydromechanics and renormalization group approaches</i>

Conference Participation

Date	12-17 June 2023
Place	Salerno
Congress	Joint European Thermodynamics Conference 2023
Activity	Speaker
Title of the intervention	<i>Radiative and collisional effects in molecular motion: thermalization, gaussianity and gaussianity breaking.</i>

Date	16-24 September 2024
Place	Aachen
Congress	EFDC1 2024
Activity	Speaker
Title of the intervention	<i>Hydromechanics of complex fluids: anomalies and the effective fluctuation-dissipation relation.</i>

Date	26-30 May 2025
Place	Belgrade
Congress	Joint European Thermodynamics Conference 2025
Activity	Speaker
Title of the intervention	<i>Hydromechanic theory of anomalous transport: relaxation towards equilibrium in the absence of dissipation</i>

Date	16-18 June 2025
Place	Lausanne
Workshop	Brownian Motion 2025 Workshop : Friend and Foe
Activity	Poster presentation
Title of the intervention	<i>Hydromechanics of complex fluids: anomalies and the effective fluctuation-dissipation relation.</i>

Date	7-11 July 2025
Place	Capri
Symposium	Complex diffusion 2025
Activity	Speaker
Title of the intervention	<i>Hydromechanic modeling of diffusion in heterogeneous systems.</i>

Tutoring classes

Date	October-December 2023
------	-----------------------

Course	Transport phenomena (University of Rome "La Sapienza", Bachelor's Degree in Chemical Engineering)
Activity	40 hours of tutoring classes
Date	October-December 2024
Course	Non equilibrium thermodynamics (University of Rome "La Sapienza", Master's Degree in Chemical Engineering)
Activity	40 hours of tutoring classes and international students academic support