

Mina Golshan

Aerospace Engineer, Ph.D., Physicist, Fluid Dynamicist

Via Gioberti 18, 10128 Turin, Italy □ +393248053874 ☑ mina.golshan@polimi.it

Education

	Politecnico di Milano , <i>Ph.D.</i> , Aerospace Engineering: Title: Cloud Turbulence Microphysic at Interfaces: a DNS model with a phase change and droplet interaction, <i>Defence: 22/02/2023</i> , <i>Milan</i> Italy
June 2017– Oct 2021	Politecnico di Torino , <i>Research Assistance</i> , Multiphase Turbulence Modelling and Droplet Interaction, <i>Turin</i> Italy
e e	Payam Noor Tabriz University , Research Assistance, Fundamental Quantum Theory, Tabriz Iran
	Tabriz University , <i>M.Sc.</i> , Fundamental Physics: Title: New potentials with the oscillator spectrum, <i>Defence: 20/02/2015, Tabriz</i> Iran
May 2012– Feb 2013	Shahid Madani Azarbaijan University, Research assistant, Atomic/Nuclear Physics, Tabriz Iran
Jan 2008– March 2012	Shahid Madani Azarbaijan University, B.Sc., Atomic/Nuclear Physics, Tabriz Iran
	Work Experience
2020-2023	Sales Manager, PICCO S.R.L., Exporting and Importing, Automation and Instrumentation Part time
2017–present	Personal Trainer (Fitness), MacFit Gym, Turin, Italy
2017 - 2023	Swimming Coach, ESL. Vigone swimming pool, TUrin, Italy,
2017 - 2020	Personal Trainer (Fitness), Virgin Active, Turin, Italy
2015 - 2017	Teaching, Azad University, Quantum Physics, Tabriz, Iran
2008 - 2017	Karate Coach, Iran Karate Federation, Tabriz, Iran
2006 2017	Swimming Cooph Inon Swimming Federation Tabric Inon

2006–2017 Swimming Coach, Iran Swimming Federation, Tabriz, Iran

3rd to 6thCollaborating in organization: 17th European Turbulent Conference (ETC)SeptemberPolitecnido di Torino20192019

Internships

CINECA Super Computing Center 2018, Bologna, Italy

CINECA Super Computing Center 2018, Rome, Italy

CINECA Super Computing Center 2019, Rome, Italy

	Regional Agency for Environmental Protection (ARPA) 2019, Turin, Italy National Institute of Metrological Research (INRIM)
	2022, Turin, Italy
	Achievements
T	Research scholarship GESD project; Design and development of a green mechatronic remote sensing system suitable for carrying out the Lagrangian measurement of fluctuations in temperature, pressure, humidity, position, speed, acceleration within and at the edge of warm atmospheric clouds
2021-2023	Full Marie Skłodowska-Curie Ph.D. scholarship; European Union's Horizon 2020 research and innovation programme (grant agreement no. 675675)
2017-2020 ❤ 2007-2017	Black belt in Karate (Dan 2), kumite, Shito-Ryu, Iran International Karateh Federation
$\mathbf{\Psi}$	Third-degree swimming coach, Iran International swimming Federation
2005-to date T	Lifeguard, Iran International swimming Federation
2010-2017	Synchronized swimming, Iran International swimming Federation
2008-2011	Recreational or the rapeutic swimming, Iran International swimming Federation
2012-2015 * 2012-to date	Certified personal Trainer bodybuilding and fitness

Languages

- ♥ Azeri (Mother language)
- ♥ Persian (Mother language)
- 🏶 English
- 😵 Turkish
- 😵 Italian

Computer Skills

MATLAB MAPLE Microsoft Excel Microsoft Word Microsoft PowerPoint Microsoft Access In-House Code Development: Fortran

External Training

Introduction to modern FORTRAN at CINECA Super Computing Center Bologna 2018, CINECA, Bologna, Italy

1st Training School on Atmospheric turbulence, convection, and clouds, introduction to Microphysics

Politecnico di Torino, 2017, Turin, Italy

1st spring School on clouds parametrization and climate models at ENS ENS, 2018, Paris, France

2nd Summer School on Microphysics and Dynamics of Clouds at UFS UFS, 2018, Zugspitze, Germany

3rd Workshop Training School on aerosols and cloud chemistry, Lagrangian experimental Measurements in turbulence. Atmospheric radio Sounds and RiDAR technology, Control sensor engineering at UW

University of Warsaw, 2019, Warsaw, Poland

3rd Summer School on Small-Scale Turbulence in Clouds on non-equilibrium statistical physics, Extreme events, and intermittency in fine-scale turbulence, Non-spherical particles in Turbulence, Sedimentation of non-spherical particles in Turbulence Lagrangian statistics of fluid particles in turbulence, Lab Tour, Introduction to 3-D printing with Nano Scribe, In situ measurements of cloud microphysics properties, Statistical models for particles in turbulence at Max Planck Institute for Dynamics and Self-Organization

Max Planck Institute for Dynamics and Self-Organization, 2019, Göttingen, Germany

4th Workshop and Training School on data and model integration in fluid mechanics Imperial College of London, 2019, London, England

Industrial Skills

Politecnico Di Milano, 2021, Milan, Italy

Advances Tutorial course on TEX/L A TEX Politecnico Di Torino, 2020, Turin, Italy

Advances Tutorial course on Time management Politecnico Di Torino, 2020, Turin, Italy

Essential Tutorial course on Public Speaking Politecnico Di Torino, 2020, Turin, Italy

Tutorial course on Research integrity Politecnico Di Torino, 2019, Turin, Italy

Publications

Intermittency acceleration of water droplet population dynamics inside the interfacial layer between cloudy and clear air environments

Mina Golshan, Mattia Tomatis, Shahbozbek Abdunabiev, Federico Fraternale, Marco Vanni, Daniela Tordella, International Journal of Multiphase Flow, Volume 140, 103669, July 2021

Microphysical timescales and local supersaturation balance at a warm cloud top boundary Fossà, L., Abdunabiev, S., Golshan, M., Tordella, D., Physics of Fluids, 34(6), 067103, May 2022

Diffusion of turbulence following both stable and unstable step stratification perturbations Gallana, L., Abdunabiev, S., Golshan, M., Tordella, D., Physics of Fluids, 34(6), 065122, June 2022

Turbulent dispersion analysis via distance-neighbor graphs from direct numerical simulations Abdunabiev, S., Golshan, M., Abba, A., Tordella, D., In preparation 2023

Conferences

EGU General Assembly

Vienna, Austria, 8 April 2018

European Mechanics Society, Colloquium 596 Venice, Italy, 11, May 2018

EPFDC 9th European Postgraduate Fluid Dynamics Conference Technische Universit at Ilmenau, Germany, 19 July 2019

17th European Turbulence Conference (ETC)

Turin, Italy, 6 September 2019

EGU 2020 Online, 8 May 2020

Work in progress

Dec 2022– Collaboration to the project MIGRE- "WARM CLOUD MINI GREEN ULTRALIGHT Nov 2023 EXPENDABLE RADIO SONDE"

Turin, Italy