

PERSONAL INFORMATION

Francesco Sioni



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🌐 <https://www.researchgate.net/profile/Francesco-Sioni-2>

Sex Male | Date of birth | Nationality Italian

WORK EXPERIENCE

Dec 2021 - present

ARPA FVG (Regional Agency for Environmental Protection in Friuli Venezia Giulia)

Weather forecaster and researcher – Via Natisone 43, 33057 Palmanova (UD), Italy

- Weather forecaster (public weather bulletins for FVG, Civil Protection weather bulletins, weather bulletins for sporting events e.g. Barcolana, FIS Alpine Junior World Ski Championship)
- Researcher (interest in: deep moist convection, hail, supercells, severe weather, extreme precipitation events)
- Data analyst and developer (postprocessing of weather models to improve the forecasts, development of tools for data visualization, forecast verification)

Business or sector Public Weather Service

ADDITIONAL ACTIVITIES and PROJECTS

officially scheduled for July 2026

Advanced Course on “Severe Convection and Hail” – Udine (Italy)

Organizer and teacher of an [Advanced Course](#) with national and international speakers working in the level of cutting-edge research in Deep Moist Convection and Hail

November 2025

First AISAM Students’ conference – Rovereto (Italy)

Organizer and moderator of the [first Students’ conference in Meteorology](#) in Italy during “Festival della Meteorologia”

September 2024 - present

European Meteorological Society EMS Annual Meeting

Co-convener and moderator of the Session UP1.3 “Understanding and modelling of atmospheric hazards and severe weather phenomena”

- Co-convener - Barcelona (Spain) 2-6 September 2024
- Co-convener and moderator – Ljubljana (Slovenia) 7-12 September 2025

Reviewer

Reviewer for International Journals of Atmospheric Sciences:

- Atmospheric Research
- Advances in Science and Research
- Scientific Reports

TEACHING

- 3-24 May 2024 **Course “Scoprire la meteorologia della regione FVG con Excel”**
Istituto Statale d'Istruzione Superiore Michelangelo Buonarroti, Monfalcone (Italy)
Programma Regionale Scuola Digitale 2021-2025 - Progetto “Scienza & Digitale: esploriamo la natura con le nuove tecnologie”

EDUCATION

- Oct 2019 – Oct 2021 **Double Master Degree – “Environmental Meteorology”** EQF 7
Università degli Studi di Trento (Italy) / University of Innsbruck (Austria)
 - Final grade: 110 with laude/110
 - Thesis: "Revisiting the atmospheric dynamics of the two century floods over north-eastern Italy"
 - Supervisors: Giovannini L. (UniTn), Davolio S. (UniMi), Grazzini F. (LMU, ARPAE)
- Oct 2016 – Sep 2019 **Bachelor degree – “Physics”** EQF 6
Università degli Studi di Trieste (Italy)
 - Final grade: 110/110
 - Thesis: "North Atlantic Oscillation - Seasonal Dependence and influence on European climate extremes in the 20th Century"
 - Supervisor: Kucharski F. (ICTP)
- Sep 2011 – Jun 2016 **Scientific High School Diploma – “Liceo delle Scienze Applicate”** EQF 4
Istituto Statale di Istruzione Superiore Arturo Malignani
 - Final grade: 100/100

TRAINING

- 20-24 June 2022 **Summer School in Atmospheric Composition and Meteorology**
ISAC-CNR, Lecce, Italy
- 17-21 June 2024 **Advanced Course in Microphysics of Atmospheric Clouds**
CISM International Centre for Mechanical Sciences, Udine, Italy
- 28-31 October 2024 **Artificial Intelligence for Weather and Climate Autumn School**
FBK Fondazione Bruno Kessler, Trento, Italy

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	C1
Cambridge FCE					

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Independent user	Proficient user

Digital competences - Self-assessment grid

- Python (management of netcdf and grib files, management of radar products and volumes, data visualization, EOF analysis, data analysis)
- R (data visualization, data analysis, spatial interpolation: IDW technique, kriging)
- CDO (elaboration and analysis of netcdf and grib files)
- Matlab (numerical methods for differential equations)
- Fortran
- Web languages (HTML, PHP)
- Database (MySQL)
- UNIX
- Latex

Driving licence B

PUBLICATIONS

- **Sioni, F.**, Davolio, S., Grazzini, F., & Giovannini, L. (2023). [Revisiting the atmospheric dynamics of the two century floods over north-eastern Italy](#). Atmospheric Research, 286, 106662.
- **Sioni, F.**, Manzato, A., Fasano, G., Lussana, C., & Pucillo, A. (2024). [On atmospheric pressure and temperature correlation across various terrain types](#). Atmospheric Research, 311, 107689.
- Manzato, A., Fasano, G., Cicogna, A., **Sioni, F.**, & Pucillo, A. (2025). [Relationships between Environmental Parameters and Storm Observations in Po Valley: Are They Climate Change Invariant?](#). Journal of Applied Meteorology and Climatology, 64(3), 267-298.

ADDITIONAL INFORMATION

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Memberships

- AISAM (Associazione Italiana di Scienze dell'Atmosfera e Meteorologia)
- SMA-A (Società Meteorologica Alpino-Adriatica)
- RMETSoc (Royal Meteorological Society)

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Conferences

- IV AISAM annual conference, 15-19 February 2022, Milano (Italy). *Revisiting the atmospheric dynamics of the two century floods over north-eastern Italy*. **Poster**.
- 36th ICAM International Conference on Alpine Meteorology, 19-23 June 2023, St. Gallen (Switzerland). **Poster**.
- V AISAM annual conference, 5-8 February 2024, Lecce (Italy). *On atmospheric pressure and temperature patterns across various terrain types*. **ePoster**.
- EMS European Meteorological Society Annual Meeting, 7-12 September 2025, Ljubljana (Slovenia). *Relationships between Environmental Parameters and Storm Observations in Po Valley: Are They Climate Change invariant?*. **Oral**.
- EMS European Meteorological Society Annual Meeting, 7-12 September 2025, Ljubljana (Slovenia). *Numerical Simulations of two giant hail events in northeastern Italy with WRF-HAILCAST*. **Oral**.
- 12th ECSS European Conference on Severe Storms, 17-21 November 2025, Utrecht (Netherlands). *Numerical Simulations of two giant hail events in northeastern Italy with WRF-HAILCAST*. **Poster**.

ADDITIONAL INFORMATION

Lectures and Seminars

- Università della Terza Età di Spilimbergo, Spilimbergo (Italy)
 - i) *Le nuvole. Guida pratica per riconoscerle.* 10/01/2023
 - ii) *Proverbi Meteorologici Friulani. Tradizioni e basi scientifiche.* 05/03/2024
 - iii) *Storia della meteorologia. Viaggio attraverso I momenti salienti che hanno portato alla meteorologia di oggi.* 07/01/2025
- CAI Club Alpino Italiano Codroipo, Codroipo (Italy), 15/11/2023. *Gli eventi estremi in Friuli-Venezia Giulia. Caratteristiche del territorio, casi studio e trend attesi.*
- CAI Tolmezzo, Tolmezzo (Italy), 20/02/2024. *Introduzione alla meteorologia.*
- CAI Cividale, Cividale (Italy), 03/10/2024. *Meteorologia e arrampicata. Guida pratica per saper interpretare le previsioni e andare ad arrampicare relativamente tranquilli.*
- Sala Civica, Cormons (Italy), 15/11/2024. *Previsioni e CFD. Evento informativo meteo su previsioni e allerte.*
- CAI Cervignano, Cervignano (Italy), 22/09/2025. *Introduzione alla meteorologia.*

Other interests

- Cinema (collaborator of CEC Centro Espressioni Cinematografiche as movie reviewer and correspondent at Venice Mostra del Cinema in 2025)
- Drums and Percussions (Level M2 of Dante Agostini Drum Teaching Method)
- Climbing

Palmanova, 27/11/2025

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