PERSONAL INFORMATION

Mattia Pecci

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ORCID 0000-0002-0360-6572

Gender M | Date of birth 1993-10-30 | Nationality Italian

EDUCATION

2020–2024 Ph.D. in Information and Communication Technologies

Sapienza University of Rome - Department of Information Engineering, Electronics and Telecommunications in collaboration with ENEA - Laboratory for Observations and Analyses of Earth and Climate

Curriculum Radar and remote sensing

Thesis Title Integration of satellite and in situ data to measure CO_2 fluxes in the Mediterranean Sea

2016–2020 Master of Science in Theoretical Physics

Sapienza University of Rome - Physics Department

Thesis title Study of the planetary boundary layer through WRF modeling and comparison with measurements in the urban area of Rome

Grade Summa cum laude

2012–2016 Bachelor of Science in Physics

Sapienza University of Rome - Physics Department

Thesis title Measurements of the vertical density profile of atmospheric water vapor

Grade 100/110

EXPERIENCE

2024–present Research Fellow

ENEA - Laboratory for Models and Measurements for Air Quality, and Climate Observations (SSPT-CLIMAR-AOC) – Lampedusa

2021–present Associate with a collaborative role

CNR-ISMAR – Rome

2012–present CGI operator for monitoring Calderone Glacier

Comitato Glaciologico Italiano

Participation as operator for Calderone annual mass balance measurements, since 2012. See technical report list at the end of the CV.

2016–2017 Collaboration scholarship

Sapienza University of Rome - Physics Department

Assistance at the 'Bruno Pontecorvo' didactic laboratory, for a total of 150 hours.

PERSONAL SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Spanish	C1	C1	C1	C1	C1
	DELE Spanish certification level B2 (2011)				

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

IT skills
- **Programming languages**: C, Python.
- **Programs and application**:
  - Good knowledge of Windows and Linux based operating system and related basic programs.
  - Good knowledge of Office (Word, Excel e Power Point), Latex and Gnuplot.
  - Basic knowledge of graphic programs and GIS systems.

Soft skills
- Team working and relational skills acquired in 12 years of Scouting in the Italian scout association (AGESCI) from 2002 to 2014 and thanks to different volunteer experiences:
  - 2015-present: Scoutmaster, currently responsible of a group of about 30 teenagers (12-16 years).
  - 2010-2011: Worked as volunteer with 'Andrea Tudisco Association' in Rome's hospital 'Policlinico Agostino Gemelli' (patient children's entertainment).
- General technical skills acquired thanks to different experiences:
  - 2013-2016: Volunteer in the civil protection group 'Roma XV'.
  - 2016: BLSD (Basic Life Support Defibrillator) course with certification.
  - 2001-present: CAI (Club Alpino Italiano) member.
  - 2010: CAI ski-mountaineering course with certification.

Driver License A2, B

RESEARCH ACTIVITIES

Journal article
- Pecci, M., Colella, S., Di Iorio, T., Meloni, D., Monteleone, F., Pace, G., Sferlazzo, D.M., & di Sarra, A.G., *Validation of photosynthetically active radiation by OLCI on Sentinel-3 against ground-based measurements in the central Mediterranean and possible aerosol effects*, European Journal of Remote Sensing, 57 (1), https://doi.org/10.1080/22797254.2024.2307617, 2024.

- Di Bernardino, A., Mazzarella, V., Pecci, Casasanta, G., Cacciani, M. and Ferretti, R., *Interaction of the Sea Breeze with the Urban Area of Rome: WRF Mesoscale and WRF Large-Eddy Simulations Compared to Ground-Based Observations.*, Boundary-Layer Meteorol 185, 333–363, https://doi.org/10.1007/s10546-022-00734-5, 2022.

- Cappelletti D., Crocchianti S., D'Aquila P., Iurisci C., Pecci Massimo and Pecci Mattia, *The ephemeral epiglacial lake of the Ghiacciaio del Calderone (Gran Sasso,Italy)*, Rivista di Geografia Fisica e Dinamica Quaternaria 37(2), p. 85-89, DOI 10.4461/GFDQ.2014.37.10, 2014.

Conference paper

– Pollino, M., La Porta, L., Crosara, A., De Rosa, L., Di Iorio, T., Iaccarino, A., Meloni, D., Pecci, M., Aronica, S., Fontana, I., Giacalone, G., Tranchida, G., Anello, F., Borfecchia, F., Calabrese, A., Colella, S., Colucci, F., Marullo, S., Micheli, C., Monteleone, F., Pace, G., Piacentino, S., Sferlazzo, D. and di Sarra, A., *The integrated Marine Hazard webGIS platform for management of open and coastal ocean in Sicily*, will be published in the proceeding of the 2022 IEEE International workshop on Metrology for the Sea, 2022.

– Palermo, G., Raparelli, E., Alvan Romero, N., Manzi, M.P., Papa, M., Biscarini, M., Tuccella, P., Lombardi, A., Colaiuda, V., Tomassetti, B., Cimini, D., Pettinelli, E., Mattei, E., Lauro, S., Cosciotti, B., Picciotti, E., Di Fabio, S., Bernardini, L., Cinque, G., Cappelletti, D.M., Petroselli, C., Pecci, M., Pecci, Mt., D'Aquila, P., Martinelli, M., Caira, T., Di Fiore, T., Boccabella, P., Marzano, F.S., *Snow-Mantle Remote Sensing from Spaceborne Sar Interferometry Using a Model-Based Synergetic Retrieval Approach in Central Apennines*, IGARSS 2022 - 2022 IEEE International Geoscience and Remote Sensing Symposium, 2022, pp. 4514-4517, doi: 10.1109/IGARSS46834.2022.9884911, 2022.

– Pettinelli, E., Pecci, M., Marzano, F. S., Biscarini, M., Boccabella, P., Bruschi, F., Caira, T., Cappelletti, D., Cimini, D., D'Aquila, P., Di Fiore, T., Esposito, G., Lauro, S. E., Mattei, E., Monaco, A., Palermo, G., Pecci, M., Raparelli, E., Scozzafava, M., and Tuccella, P., *Monitoring the last Apennine glacier: recent in situ campaigns and modelling of Calderone glacial apparatus*, EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-22579, https://doi.org/10.5194/egusphere-egu2020-22579, 2020.

Technical report

– Pecci, Massimo, Cappelletti, D., Esposito, G., D'Aquila, P., Caira, T., Pecci, Mattia, Marzano, F., Tuccella, P., Raparelli, E., Boccabella, P. e Montini, M., *CAMPAGNA GLACIOLOGICA ANNUALE DEI GHIACCIAI ITALIANI (2020)*, Baroni, C., Bondesan, A., Carturan, L. e Chiarle, M. (Eds.), Rivista di Geografia Fisica e Dinamica Quaternaria 43(2), p. 296-299, DOI 10.4461/ GFDQ.2020.43.10, 2020.

– Pecci, Massimo, Cappelletti, D., Esposito, G., D'Aquila, P., Caira, T. e Pecci, Mattia, *CAMPAGNA GLACIOLOGICA ANNUALE DEI GHIACCIAI ITALIANI (2019)*, Baroni, C., Bondesan, A., Carturan, L. e Chiarle, M. (Eds.), Rivista di Geografia Fisica e Dinamica Quaternaria 43(1), p. 126-129, DOI 10.4461/ GFDQ.2020.43.4, 2020.

– Pecci, Massimo, Cappelletti, D., Esposito, G., D'Aquila, P., Caira, T. e Pecci, Mattia, *RELAZIONI DELLA CAMPAGNA GLACIOLOGICA 2018, Ghiacciaio Del Calderone*, Baroni C., Bondesan A., Carturan L. e Chiarle M. (Eds.), Rivista di Geografia Fisica e Dinamica Quaternaria 42(2), p. 191-192, DOI 10.4461/GFDQ.2019.42.9, 2019.

– Pecci, Massimo, Cappelletti, D., Esposito, G., D'Aquila, P., Caira, T. e Pecci, Mattia, *RELAZIONI DELLA CAMPAGNA GLACIOLOGICA 2017, Ghiacciaio Del Calderone*, Baroni C., Bondesan A., Carturan L. e Chiarle M. (Eds.) , Rivista di Geografia Fisica e Dinamica Quaternaria 41(2), p. 181-182, DOI 10.4461/GFDQ.2018.41.17, 2018.

– Pecci, Massimo, Cappelletti, D., D'Aquila, P., Pecci, Mattia, Caira, T. e Iurisci, C., *RELAZIONI DELLA CAMPAGNA GLACIOLOGICA 2015, Ghiacciaio Del Calderone*, Baroni C., Bondesan A. e Mortara G. (Eds.), Rivista di Geografia Fisica e Dinamica Quaternaria 39(2), p. 293-295, DOI 10.4461/GFDQ.2016.39.20, 2016.

– Pecci, Massimo, Cappelletti, D., D'Aquila, P., Pecci, Mattia e Iurisci, C., *RELAZIONI DELLA CAMPAGNA GLACIOLOGICA 2014, Ghiacciaio Del Calderone*, Baroni C., Bondesan A. e Mortara G. (Eds.), Rivista di Geografia Fisica e Dinamica Quaternaria 38(2), p. 303-304, DOI 10.4461/GFDQ.2015.38.18, 2015.

– Pecci, Massimo, Cappelletti, D., D'Aquila, P., Pecci, Mattia e Iurisci, C., *RELAZIONI DELLA CAMPAGNA GLACIOLOGICA 2013*, Ghiacciaio Del Calderone, Baroni C., Bondesan A. e Mortara G. (Eds.), Rivista di Geografia Fisica e Dinamica Quaternaria 37(2), p. 227, DOI 10.4461/GFDQ.2014.37.16, 2014.

– Pecci, Massimo, Cappelletti, D., Grilli, A., D'Aquila, P., Pecci, Mattia e Antonini, L, *RELAZIONI DELLA CAMPAGNA GLACIOLOGICA 2012, Ghiacciaio Del Calderone*, Baroni C., Bondesan A. e Mortara G. (Eds.), Rivista di Geografia Fisica e Dinamica Quaternaria 36(2), p. 373-374, DOI 10.4461/GFDQ.2013.36.24, 2013.

Measurement campaigns

– 14-20 July 2021: Oceanographic campaign "Watercolours 2021" on the R/V Hercules, organized by CNR-ISMAR and University of Malta, for the satellite characterization of ocean colour in the Mediterranean.

– 29 October - 4 November 2021: Oceanographic campaign "COSIMO 2021" on the oceanographic vessel G. Dallaporta, organized by CNR-ISMAR, for the characterization of bio-optical proprieties of fluvial plume in the Tyrrenian Sea.