PERSONAL INFORMATION

Nunzia Letizia

Office: Viale Thomas Alva Edison s.n.c. 81100 Caserta

nunzia.letizia@cmcc.it

WORK EXPERIENCE

02/2026 - ongoing

Postdoctoral researcher at Euro-Mediterranean Center on Climate Change (CMCC) Foundation

REgional Models and geo-Hydrological Impacts Division of the Institute for Climate Resilience (ICR) - Viale Thomas Alva Edison s.n.c. 81100 Caserta (CE)

- Research activity in the framework of Adaptation Engineering

01/2025 - 12/2025

Postdoctoral researcher at Università degli Studi della Campania “Luigi Vanvitelli”

Department of Engineering - via Roma 29, 81031 Aversa (CE)

- Research activity about interpretation of dynamic pile load tests

01/2023 - 12/2024

Postdoctoral researcher at Katholieke Universiteit Leuven (KU Leuven)

KU Leuven Campus Brugge - Faculty of Engineering Technology - Spoorwegstraat 12,

8200 Bruges

- Research activity in the framework of the SAGE-SAND (Soil ageing around offshore wind turbine foundations - from operational response to decommissioning) research project
- Teaching assistant for the course Computer skills for Civil Engineers
- Teaching assistant for the course Geotechnics

04/2018 – 07/2018

Scholarship researcher at Università degli Studi della Campania “Luigi Vanvitelli”

Department of Engineering - via Roma 29, 81031 Aversa (CE)

- Research activity about the effect of the installation process of continuous flight auger (CFA) piles on the foundation response

EDUCATION AND TRAINING

11/2018-07/2022

Ph.D. in Geotechnical Engineering

Università degli Studi della Campania “Luigi Vanvitelli” - Final grade: Excellent

- Thesis: Response to generalised loading of caissons for offshore wind turbines

11/2015-04/2017

Master's degree in Civil Engineering

Università degli Studi della Campania “Luigi Vanvitelli” - Final grade: Full marks with honors

11/2011-01/2015

Bachelor's degree in Civil Engineering

Università degli Studi della Campania “Luigi Vanvitelli” - Final grade: Full marks with honors

CERTIFICATIONS

FCE (First Certificate of English) ESOL Cambridge

PERSONAL SKILLS

Mother tongue: Italian

Other languages: English

Communication skills
- Confident public speaker with experience in international academic environments
- Effective in teamwork, strengthened through collaboration with researchers from different backgrounds

Organisational / managerial skills
- Ability to manage research activities independently and meet deadlines
- Experience in preparing and organising teaching materials, refined through university teaching activities
- Mentoring and organisational abilities developed as co-supervisor of Master's theses

Job-related skills
- Expertise in soil mechanics, foundation engineering, offshore geotechnical structures and dynamic pile load test interpretation

Computer skills
- Excellent command of Microsoft Office suite
- Skilled in numerical modelling and simulation software, including ABAQUS and Plaxis 2D/3D
- Proficient in programming in MATLAB and Python
- Experienced in AutoCAD for technical drawing
- Confident user of LaTeX

ADDITIONAL INFORMATION

Publications
- Letizia, N., Spyridis, M., Anoyatis, G., Simonin, L., Rattez, H., Collin, F., & François, S. (2025). Effects of installation process on lateral bearing behaviour of monopiles for offshore wind turbines. In Proceedings of the 5th International Symposium on Frontiers in Offshore Geotechnics (ISFOG2025)
- Iodice, C., Di Laora, R., Letizia, N., Anoyatis, G., & Mandolini, A. (2025). Analytical Solutions for Lateral Bearing Capacity of Piles in Nonhomogeneous Soil. Journal of Geotechnical and Geoenvironmental Engineering, 151(1), 04024137.
- Della Corte, A., Letizia, N., Tsikas, A., François, S., & Anoyatis, G. (2025). Dynamic soil pressures on rigid vertical walls in presence of generalized inhomogeneous soils. Earthquake Engineering & Structural Dynamics, 54(5), 1342-1360.
- Della Corte, A., Letizia, N., Durante, M. G., Tsikas, A., Younan, A., François, S., & Anoyatis, G. (2025). Dynamic soil pressures on rigid vertical rotational walls in presence of generalised inhomogeneous soils. In COMPDYN 2025 10th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering.
- Anogiatis, G., François, S., Letizia, N., Della Corte, A., Orakci, O., & Tsikas, A. (2024, March). Seismic soil pressures on rigid walls retaining inhomogeneous backfills. In Proceedings of the 18th world conference on earthquake engineering wcee2024 milan.
- Letizia, N., Anoyatis, G., Simonin, L., Rattez, H., Collin, F., François, S., ... & Soete, J. (2024). Geotechnical characterization of a test site in Zeebrugge for large scale tests of monopiles in the framework of the SAGE-SAND project. In Geotechnical Engineering Challenges to Meet Current and Emerging Needs of Society (pp. 3088-3093). CRC Press.
- Orakci, O., Letizia, N., François, S., Chow, S., Tian, Y., & Anogiatis, G. (2023, June). Assessment of macro-elements in the prediction of the response of offshore wind turbines. In 9th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2023 (Vol. 2, pp. 2946-2962). Institute of Research and Development for Computational Methods in Engineering Sciences (ICMES).
- Letizia, N., Iodice, C., & Mandolini, A. (2018). A local design method for pile foundations. Advances in Civil Engineering, 2018(1), 9486945.
- Letizia, N., Crispino, G., & Gisonni, C. (2018). Estimation and mitigation of hydropeaking flow alterations: a case study. In Proc. 5th IAHR Europe Congress. Trento.