

Antonio Sgaramella

EDUCATION AND TRAIN-	
ING	
[1 Jan 2022 – 31 Dec 2024]	PhD Candidate in Energy and Environment
	Sapienza, University of Rome
	City: Rome Country: Italy Field(s) of study: Hydrogen Refuelling Stations Level in EQF: EQF level 8
	- occupational techniques (making of standard breads, fancy breads, cakes and pastries)
	- science applied to food and equipment (microbiology, biochemistry, hygiene)
	 occupational technology (basic principles, hygiene and safety)
	- knowledge of business and its economic, legal and social context
[27 Feb 2019 – 17 May 2021]	Master Degree in Energy Engineering
	Sapienza, University of Rome
	City: Rome Country: Italy Field(s) of study: Energy Engineering Final grade: 110/110 Level in EQF: EQF level 7 Thesis: Renewable installation targets review in the light of the Hydrogen Roadmap Italy: energy-economic simulation
[1 Feb 2020 – 1 Jul 2020]	Erasmus Program (Energy Engineering)
	Budapest University of Technology and Economy
	City: Budapest Country: Hungary Level in EQF: EQF level 7
[20 Sep 2015 – 14 Dec 2018]	Bachelor Degree In Energy Engineering
	Sapienza, University of Rome
	City: Rome Country: Italy Field(s) of study: Energy Engineering Level in EQF: EQF level 6 Thesis: Evaluation of an Industrial Unconfined Vapor Cloud Explosion (UVCE) Environmental Impact
WORK EXPERIENCE	
[1 Sep 2021 – 31 Dec 2021]	Energy technology engineer
	Kerr SpA
	City: Rome Country: Italy
	- Energy Diagnosis
	- TerMus Software
	- Sizing of sustainable technologies
	- Feasibility study
[1 May 2022 – Current]	Freelencer
	Country: Italy
	- Risk assessment correlated to hydrogen refuelling stations
	- Techno-economic analysis of hydrogen refuelling stations

	- Analysis of existing Italian and European hydrogen refuelling regulations
[1 Jan 2012 – 31 Dec 2021]	Private teacher
	Country: Italy
[15 Jun 2013 – 1 Sep 2014]	Lifeguard
	Country: Italy
	- maintenance of residancial pool
	- relations with people and suppliers
	- Seasonal job
[1 Jan 2016 – Nov 2018]	Occasional Pomoter
	City: Rome Country: Italy
	- Sale of products
	- relations with people
LANGUAGE SKILLS	
	Mother tongue(s): Italian
	Other language(s):
	English LISTENING C1 READING C1 WRITING C2
	SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1
	Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user
DIGITAL SKILLS	, г , · · · ·
	My Digital Skills
	Microsoft Word Microsoft Office Microsoft Excel Outlook Python Language - Basic knowledge Matlab/Simulik Social Media EnergyPLAN HyRAM AutoCad 2D -3D
PUBLICATIONS	HONG refuelling station to appelarate the transition towards a real budragen
[2024]	HCNG refuelling station to accelerate the transition towards a real hydrogen economy: A techno-economic analysis
	Reference: International Journal of Hydrogen Energy
	https://doi.org/10.1016/j.ijhydene.2024.05.145
[2023]	How the cylinder initial conditions affect the HCNG refuelling process - A thermodynamic analysis to determine the most effective filling parameters
	Reference: International Journal of Hydrogen Energy
	https://doi.org/10.1016/j.ijhydene.2023.07.323
[2023]	Recent progresses in H2NG blends use downstream Power-to-Gas policies application: An overview over the last decade
	Reference: International Journal of Hydrogen Energy
	https://doi.org/10.1016/j.ijhydene.2023.06.141
[2023]	Optimal RES integration for matching the Italian hydrogen strategy requirements
	Reference: Renewable Energy

[2024]	Hydrogen blending in natural gas grid: energy, environmental and economic implications in the residential sector
	Reference: Buildings
	Article in Press
[2023]	Hydrogen volumetric fraction effects on HCNG refuelling station CAPEX
	Reference: Journal of Physics
	10.1088/1742-6596/2648/1/012064
[2023]	Potential Role of green hydrogen as an energy carrier in smart energy system communities
	Reference: Journal of Physics
	10.1088/1742-6596/2648/1/012096
[2023]	Decarbonization of methanol production - Techno-economic analysis of Power-to- Fuel process in a Hydrogen Valley
	Reference: Journal of Physics
	10.1088/1742-6596/2648/1/012066
CONFERENCES AND SEM- INARS	
[21 Mar 2022 – 22 Mar 2022]	World Online Conference on Sustainable Technologies Online
	Oral presentation of the work "Increasing the Italian RES installation targets for accomplishing the electrolysers capacity goals set by the Italian Hydrogen Strategy".
[14 Sep 2023 – 15 Sep 2023]	ATI Conference 2023 Carpi, Italy
	Presented work: "Hydrogen volumetric fraction effects on HCNG refuelling station CAPEX".
[25 Sep 2023 – 29 Sep 2023]	Conference on Sustainable Development of Energy, Water and Environment Systems Dubrovnik, Croatia
	Presented work: "HCNG refuelling station to accelerate the transition towards a real hydrogen economy: a techno-economic analysis".
[30 Jun 2024 – 5 Jul 2024]	37th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems Rhodes, Greece
	Presented work: "Can hydrogen refuelling be cost-effective and competitive with electric chargingfor heavy-duty vehicles?".
[8 Sep 2024 – 12 Sep 2024]	19th Conference on Sustainable Development of Energy, Water and Environment Systems Rome, Italy
	Presented work: "Improving the effectiveness of an on-site hydrogen refuelling station for heavy-duty vehicles: a multi-objective optimisation".

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