

PERSONAL INFORMATION



Laura Cirrincione

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Sex Female | Birth date April 8th 1984 | Nationality Italian

WORK EXPERIENCE

2021 - today

Post-Doc Researcher

Fellowship Grant Research Title "Energy and environmental simulations and analysis of building elements, buildings and clusters of buildings",

Università degli Studi di Palermo – Department of Engineering

WORK EXPERIENCE

2020

Winner of the Grant STSM – COST Action RESTORE – EU Horizon 2020

Participation in the STSM (Short Term Scientific Mission) of the COST (European Cooperation in Science & Technology) Action CA16114 RESTORE - RETHinking Sustainability TOWards a Regenerative Economy - Funded by the Horizon 2020 Framework Program of the European Union, with the project entitled "Vegetated roofs as regenerative tools for the mitigation of the building energy consumption and the improvement of the indoor comfort", published at the link <https://www.eurestore.eu/short-term-scientific-missions-stsm/stsms-for-grant-period-three/>.

LIST – Esch-sur-Alzette, Luxembourg / Università degli Studi di Palermo – Department of Engineering

WORK EXPERIENCE

2020

Visiting Researcher at Luxembourg Institute of Science and Technology (LIST)

Visiting Researcher Period at the Environmental Sustainability Assessment and Circularity (SUSTAIN) Unit del Environmental Research & Innovation (ERIN) Department del Luxembourg Institute of Science and Technology (LIST)

LIST – Esch-sur-Alzette, Luxembourg

WORK EXPERIENCE

2017 - 2021

PhD in Energy and Information Technologies

Achievement of the PhD title in Energy and Information Technologies , curriculum SSD ING-IND/11 (Building Physics), PhD Thesis Title "Simulation and experimental methods for improving energy efficiency, environmental performance and resilience of single and clustered groups of buildings"

Università degli Studi di Palermo – Department of Engineering

WORK EXPERIENCE

2017 - oggi

Freelance engineering consultancy

Registration with the Order of Engineers of the Province of Palermo with badge number 9643.

WORK EXPERIENCE

2002 - today Tutoring activities for high school and university students

WORK EXPERIENCE

2002 - today Freelance English and technical English teacher for people of various age;
Freelance English-Italian and Italian-English translator and interpreter.

WORK EXPERIENCE

2002 - today Environmental, Engineering and Surveying freelance consulting;
Freelance technical drawing work (CAD) and Office Suite work.

WORK EXPERIENCE

06/2010 – 12/2010 Trainee at ARPA Sicilia

ARPA Sicilia (Regional Environment Protection Agency), Palermo offices

Acquisition of competences regarding the general principles of environmental/industrial ecology, in particular environmental management systems, EMAS and Ecolabel:

- *European, national and local environmental policies, sustainable development, Agenda 21 and environmental management systems (EMS);*
- *study of the environmental management system (EMS) EMAS (Eco-Management and Audit Scheme) in its regulatory evolution, EMAS I - II - III;*
- *EMAS framing within EC environmental policies, in parallel with IPP, GPP, ISO 14001;*
- *distinction between EMS, environmental quality label and ecological labels.*

Activity or sector Stage at "UO SG3.2: Promotion of Environmental Management Schemes"

EDUCATION AND TRAINING

October 2017 Civil-Environmental Engineering Professional Qualification

Università degli Studi di Palermo – Scuola Politecnica

EDUCATION AND TRAINING

Academic Year 2015/2016 Master's degree in Environmental and Hydraulics Engineering

Grade: 108/110

Università degli Studi di Palermo – Scuola Politecnica

EDUCATION AND TRAINING

Academic Year 2011/2012 Bachelor's degree in Civil Environmental Engineering

Grade: 95/110

Università degli Studi di Palermo – Facoltà di Ingegneria

EDUCATION AND TRAINING

School Year 2001/2002 Degree in Surveying (High school Diploma)

Grade: 95/100

Istituto Tecnico Statale per geometri "Mario Rutelli" - Palermo

PERSONAL SKILLS

Mother tongue Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
University of Cambridge ESOL Examination International - Level C2 (Grade A)					
French	B2	B2	B2	B2	B2

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

Communication, organizational and managerial skills Excellent level of skills acquired by attending universities, language courses, cultural organizations and through the practice of various sports and travelling abroad

Digital competence

- Excellent level of technical capability and expertise in computer use in both in Microsoft and MacOS environments, with particular reference to OfficeSuite and AutoCAD software;;
- Good competence in the use of the R (statistics), FDS (Fire Dynamics Simulator) and MATLAB softwares ;

Good competence in the use of the main digital graphics processing softwares (Photoshop, Lightroom, etc.) acquired through amateur photographer activities .

Certifications

- English language knowledge: FCE – Level C2 (Grade A), University of Cambridge ESOL Examinations, December 2011;
- PON Miur “Advanced CAD technical designer” course, April – June 2001. Achieved qualification: Expert in AutoCAD 2D and 3D.

Courses

- Participation to the “MATLAB Programming and Calculation Scientific School” course, DiFC of the University of Palermo, July 2018, with passing of final exam;
- Partecipation to the Building Physics Summer School "Scuola Estiva di Fisica Tecnica - XI Edizione - Nuove frontiere in tema di trasmissione del calore", Università degli Studi del Sannio, Massa Lubrense - Sorrento (NA), 8-12 Luglio 2019, with passing of final exam.

Patente di guida B

ADDITIONAL INFORMATION

Scientific Publications La Gennusa, M., Macaluso, R., Mosca, M., Scaccianoce, G., Massaro, F., Cirrincione, L., An experimental study on relationship between LED lamp characteristics and non-image-forming, (2017), Conference Proceedings - 2017 17th IEEE International Conference on Environment and Electrical Engineering and 2017 1st IEEE Industrial and Commercial Power Systems Europe, IEEEIC / I and CPS Europe 2017, art. no. 7977546. DOI: <https://doi.org/10.1109/IEEEIC.2017.7977546>.

Cirrincione, L., MacAluso, R., Mosca, M., Scaccianoce, G., Costanzo, S., Study of Influence of the LED Technologies on Visual and Subjective/Individual Aspects, (2018), Proceedings - 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe, IEEEIC/I and CPS Europe 2018, art. no. 8494515. DOI: <https://doi.org/10.1109/IEEEIC.2018.8494515>.

Cirrincione L., Scaccianoce G., Scudato M., Pietrafesa M., Tunnel fire active protection: improving ventilation system, Proceedings of the 36th UIT HEAT TRANSFER CONFERENCE, Catania, Italy, 25th-27th June 2018.

Cirrincione L., Peri G., Pietrafesa M., Rizzo G., Scaccianoce G., Suitability of Some Existing Damage Indexes for Regulating Contracts Between Curators of Museums and HVAC Maintenance and Management Companies, Proceedings of the 13th SDEWES Conference, September 30 – October 4, Palermo, Italy (13th Conference on Sustainable Development of Energy, Water and Environment Systems).

Cirrincione L., Ferrante P., La Gennusa M., Peri G., Scaccianoce G., Thermo-hygrometry and IAQ Related Measurements of the Indoor Physical Conditions of Exhibition Halls for Complying International Rules and Standards, Proceedings of the 13th SDEWES Conference, September 30 – October 4, Palermo, Italy (13th Conference on Sustainable Development of Energy, Water and Environment Systems).

Cirrincione, L., Scaccianoce, G., Scrudato, M., Pietrafesa, M., Rizzo, G., Tunnel fire active protection: Improving ventilation system, (2019), Journal of Physics: Conference Series, 1224 (1), art. no. 012005. DOI: <https://doi.org/10.1088/1742-6596/1224/1/012005>.

Bisegna, F., Cirrincione, L., Lo Casto, B.M., Peri, G., Rizzo, G., Scaccianoce, G., Sorrentino, G., Fostering the energy efficiency through the energy savings: The case of the University of Palermo, (2019), Proceedings - 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe, IEEEIC/I and CPS Europe 2019, art. no. 8783774. DOI: <https://doi.org/10.1109/IEEEIC.2019.8783774>.

Cirrincione, L., Marvuglia, A., Peri, G., Rizzo, G., Scaccianoce, G., The European standards for energy efficiency in buildings: An analysis of the evolution with reference to a case study, (2019), AIP Conference Proceedings, 2191, art. no. 020049. DOI: <https://doi.org/10.1063/1.5138782>.

L. Cirrincione, C. Malara, C. Marino, A. Nucara, G. Peri, M. Pietrafesa, PV/T Systems: Effect of both storage features and load configuration, 16th IBPSA International Conference and Exhibition (International Building Performance Simulation Association), Rome, Italy, 2 - 4 September 2019. DOI: <https://doi.org/10.26868/25222708.2019.210548>.

Cirrincione, L., Nucara, A., Peri, G., Rizzo, G., Scaccianoce, G., Two operative risk indicators as tools for negotiating contracts between curators of Museums and HVAC technical services providers, (2020), Journal of Cultural Heritage, 41, pp. 200-210. DOI: <https://doi.org/10.1016/j.culher.2019.07.012>.

Cirrincione, L., Gennusa, M.L., Peri, G., Rizzo, G., Scaccianoce, G., Sorrentino, G., Aprile, S., Green roofs as effective tools for improving the indoor comfort levels of buildings-an application to a case study in Sicily, (2020), Applied Sciences (Switzerland), 10 (3), art. no. 893. DOI: <https://doi.org/10.3390/app10030893>.

Cirrincione, L., La Gennusa, M., Peri, G., Rizzo, G., Scaccianoce, G., Considerations about an indicator aimed at describing the energy efficiency of buildings with innovative envelope components at different climatic conditions, (2020), Proceedings - 2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe, IEEEIC / I and CPS Europe 2020, art. no. 9160783. DOI: <https://doi.org/10.1109/IEEEIC/ICPSEurope49358.2020.9160783>.

Fabbri, K., Tronchin, L., Barbieri, F., Merli, F., Manfren, M., Gennusa, M.L., Peri, G., Cirrincione, L., Panzera, M.F., On the hygrothermal behavior of coconuts fiber insulators on green roofs, (2020), Proceedings - 2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe, IEEEIC / I and CPS Europe 2020, art. no. 9160779. DOI: <https://doi.org/10.1109/IEEEIC/ICPSEurope49358.2020.9160779>.

Cirrincione, L., Gennusa, M.L., Peri, G., Rizzo, G., Scaccianoce, G., Comparing indoor performances of a building equipped with four different roof configurations in 65 Italian sites, (2020), 20th IEEE Mediterranean Electrotechnical Conference, MELECON 2020 - Proceedings, art. no. 9140533, pp. 488-493. DOI: <https://doi.org/10.1109/MELECON48756.2020.9140533>.

Cirrincione, L., La Gennusa, M., Marino, C., Nucara, A., Peri, G., Rizzo, G., Scaccianoce, G., Retrofitting existing buildings by means of innovative envelope components: Low-impacting new

assemblies, (2020), 20th IEEE Mediterranean Electrotechnical Conference, MELECON 2020 - Proceedings, art. no. 9140532, pp. 500-505. DOI: <https://doi.org/10.1109/MELECON48756.2020.9140532>.

Cirrincione, L., Gennusa, M.L., Marino, C., Nucara, A., Marvuglia, A., Peri, G., Passive components for reducing environmental impacts of buildings: analysis of an experimental green roof, (2020), 20th IEEE Mediterranean Electrotechnical Conference, MELECON 2020 - Proceedings, art. no. 9140546, pp. 494-499. DOI: <https://doi.org/10.1109/MELECON48756.2020.9140546>.

Pietrafesa, M., Cirrincione, L., Peri, G., Rizzo, G., Scaccianoce, G., Suitability of some existing damage indexes for assessing agreements in maintenance and management of museum climatization systems, (2020), Journal of Sustainable Development of Energy, Water and Environment Systems, 8 (2), pp. 396-409. DOI: <https://doi.org/10.13044/j.sdewes.d7.0293>.

Cirrincione, L., Gennusa, M.L., Peri, G., Rizzo, G., Scaccianoce, G., Towards nearly zero energy and environmentally sustainable agritourisms: The effectiveness of the application of the European Ecolabel brand, (2020), Applied Sciences (Switzerland), 10 (17), art. no. 5741. DOI: <https://doi.org/10.3390/app10175741>.

Laura Cirrincione, Giorgia Peri, Gianfranco Rizzo, and Gianluca Scaccianoce, Leading agritourism facilities along nearly zero energy paths: proposal of an easy-to-use evaluation method, (2020), E3S Web of Conferences, 197 art. no. 02004. DOI: <https://doi.org/10.1051/e3sconf/202019702004>.

Cirrincione L., Malara C., Marino C., Nucara A., Peri G., Pietrafesa M., Effect of the thermal storage dimensions on the performances of solar photovoltaic-thermal systems, (2020), Renewable Energy, Volume 162, pp 2004-2018. DOI: <https://doi.org/10.1016/j.renene.2020.09.140>.

Cirrincione L., Peri G. (2021) Covering the Gap for an Effective Energy and Environmental Design of Green Roofs: Contributions from Experimental and Modelling Researches. In: Andreucci M.B., Marvuglia A., Baltov M., Hansen P. (eds) Rethinking Sustainability Towards a Regenerative Economy. Future City, vol 15. Springer, Cham. DOI: https://doi.org/10.1007/978-3-030-71819-0_8.

Cirrincione, L., Marvuglia, A., Scaccianoce, G., Assessing the effectiveness of green roofs in enhancing the energy and indoor comfort resilience of urban buildings to climate change: Methodology proposal and application (2021) Building and Environment, 205, art. no. 108198, DOI: : <https://doi.org/10.1016/j.buildenv.2021.108198>.

L. Cirrincione, M. L. Gennusa, G. Peri, G. Rizzo and G. Scaccianoce, "How effective are the vegetated surfaces for the CO2 sequestration? Analyzing parameters and methods" 2021 IEEE International Conference on Environment and Electrical Engineering and 2021 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 2021, pp. 1-5, DOI: <https://doi.org/10.1109/EEEIC/ICPSEurope51590.2021.9584718>.

L. Cirrincione, M. L. Gennusa, G. Peri, G. Scaccianoce and A. Alfano, "Energy Performance and Indoor Comfort of a 1930s Italian School Building: a Case Study" 2021 IEEE International Conference on Environment and Electrical Engineering and 2021 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 2021, pp. 1-6, DOI: <https://doi.org/10.1109/EEEIC/ICPSEurope51590.2021.9584678>.

Laura Cirrincione, Salvatore Di Dio, Maria La Gennusa, Giorgia Peri, Gianfranco Rizzo, Gianluca Scaccianoce, Changing commuters' mobility behaviors of university campuses: environmental and energy comparisons, E3S Web Conf. 312 12003 (2021), DOI: <https://doi.org/10.1051/e3sconf/202131212003>.

Laura Cirrincione, Patrizia Ferrante, Maria La Gennusa, Giorgia Peri, Gianfranco Rizzo, Gianluca Scaccianoce, Visually low-impacting methods for the measurement of parameters related to IAQ risk indicators in exhibition halls, E3S Web Conf. 312 12008 (2021), DOI: <https://doi.org/10.1051/e3sconf/202131212008>.

Cirrincione L., Di Dio S., Peri G., Scaccianoce G., Schillaci D., Rizzo G. A Win-Win Scheme for Improving the Environmental Sustainability of University Commuters' Mobility and Getting Environmental Credits. Energies. 2022; 15(2):396. DOI: <https://doi.org/10.3390/en15020396>.

Participation in national and international conferences, seminars and workshops

Participation to the 17th International Conference on Environment and Electrical Engineering, Milan, Italy, 6th-9th June 2017 (17th IEEEIC), as co-author of the paper "An experimental study on relationship between LED lamp characteristics and non-image forming".

Participation to the 18th International Conference on Environment and Electrical Engineering, Palermo, Italy, 12th-15th June 2018 (18th IEEEIC), as di presenting author of the paper "Study of influence of the LED technologies on visual and subjective/individual aspects".

Participation to the 36th UIT HEAT TRANSFER CONFERENCE, Catania, Italy, 25th-27th June 2018, as presenting author of the paper "Tunnel fire active protection: improving ventilation system".

Participation to the 13th SDEWES Conference, September 30 – October 4 2018, Palermo, Italy (13th Conference on Sustainable Development of Energy, Water and Environment Systems), as presenting author of papers "Thermo-hygrometry and IAQ Related Measurements of the Indoor Physical Conditions of Exhibition Halls for Complying International Rules and Standards" and "Suitability of Some Existing Damage Indexes for Regulating Contracts Between Curators of Museums and HVAC Maintenance and Management Companies", and also as member of the Local Organizing Committee.

Participation to the 19th International Conference on Environment and Electrical Engineering, Genoa, Italy, 11th-14th June 2019 (19th IEEEIC), as co-author of the paper "Fostering the energy efficiency through the energy savings: The case of the University of Palermo".

Participation to the 16th IBPSA International Conference and Exhibition (International Building Performance Simulation Association), Rome, Italy, 2nd - 4th September 2019, as co-author of the paper "PV/T Systems: Effect of both storage features and load configuration".

Participation to the 74° CONGRESSO NAZIONALE ATI – CONVERSIONE DELL'ENERGIA: Ricerca, Innovazione e Sviluppo per l'industria ed il territorio – Modena 11/13 Settembre 2019, as presenting author of the paper "The European Standards for Energy Efficiency in Buildings: an analysis of the Evolution with Reference to a Case Study".

Participation to the 20th International Conference on Environment and Electrical Engineering, Madrid, Spain, 9th-12th June 2020 (20th IEEEIC), as co-author of papers "Considerations about an indicator aimed at describing the energy efficiency of buildings with innovative envelope components at different climatic conditions" and "On the hygrothermal behavior of coconuts fiber insulators on green roofs".

Participation to the 20th IEE Mediterranean Electrotechnical Conference, MELECON 2020, Palermo, Italy, 16th-18th June 2020, as co-author of papers "Comparing indoor performances of a building equipped with four different roof configurations in 65 Italian sites", "Retrofitting existing buildings by means of innovative envelope components: Low-impacting new assemblies" and "Passive components for reducing environmental impacts of buildings: analysis of an experimental green roof".

Participation to the 75° CONGRESSO NAZIONALE ATI - # CLEAN ENERGY FOR ALL: Ricerca, Innovazione e Sviluppo per l'industria ed il territorio – Roma 15/16 Settembre 2020, as presentig author of the paper "Leading agritourism facilities along Nearly Zero Energy paths: proposal of an easy-to-use evaluation method".

Participation to the 21st International Conference on Environment and Electrical Engineering, Bari, Italy, 7th-10th September 2021 (21st IEEEIC), as presentig author of papers "Energy Performance and Indoor Comfort of a 1930s Italian School Building: a Case Study" and "How effective are the vegetated surfaces for the CO2 sequestration? Analyzing parameters and methods".

Participation to the ROOMVENT2020 Virtual Conference – Energy Efficient ventilation for Healthy Future Buildings, Torino, Italy, 15th-17th February 2021, as co-author of the paper "A case study of the indoor air quality in schools belonging to an area of the sicilian island interested by the presence of petrochemical refineries".

Participation to the 76° CONGRESSO NAZIONALE ATI - # CLEAN ENERGY FOR ALL: Ricerca, Innovazione e Sviluppo per l'industria ed il territorio – Roma 15/16 Settembre 2020, as co-author of the paper "Changing commuters' mobility behaviors of university campuses: environmental and

energy comparisons" e "Visually low-impacting methods for the measurement of parameters related to IAQ risk indicators in exhibition halls".

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DATE

Palermo, 7 January 2022

NAME AND SURNAME (SIGN)

