

Name

GABRIELLA BUTTITTA, Euro PhD

26.12.1994

29 years old, curious, open-minded and passionate. Enterprising and a bit headstrong, I love working in group, sharing ideas and committing in social activities.

I am currently working on Life Cycle Management of road pavements, looking at the three dimensions of sustainability: environmental, economic and social aspects.

EDUCATION

Apr. 2024 - currently

Assegnista di Ricerca, University of Palermo - Department of Engineering - winner of "Assegno di ricerca"

Jan. 2024 - Apr. 2024

Collaborator, University of Palermo - Department of Engineering

Jan. 2024 - Apr. 2024

Consultant for the definition of an EDP of asphalt mixtures, Vilnius Tech, Lithuania

Dec. 2023

Euro PhD in Civil Engineer with the thesis is entitled "Towards Life Cycle Management of European Road Pavements - Evaluation: Excellent

Dec. 2020 - Dec. 2023

PhD Student in "AIM HIGHEST - Advances In Modelling, Health-monitoring, Infrastructures, Geomatics, Geotechnics, Hazards, Engineering Structures, Transportation", University of Palermo, Italy

Feb. 2023 - Juin 2023

Guest researcher, INaB - Institute of Sustainability in Civil Engineer, RWTH University, Aachen, Germany

Research topic: Social Life Cycle Assessment of Road Pavements

Main aim: developing a reference framework, with specific indicators and reference scales, for the S-LCA of road pavements.

Apr. 2019 – Jul 2019

Erasmus for traineeship- Granada, Spain

Mar 2019

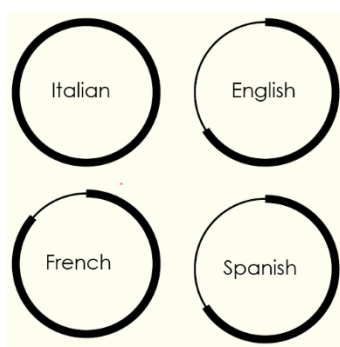
Master degree in Architecture, University of Palermo,
Italy - 110/110 Cum laude and honor

Sept 2016- Jul 2017

Erasmus for study- Ecole Nationale Supérieure
d'Architecture de Marseille (ENSA-M), Marseille, France

SKILLS

Languages Skills



Software Skills

AutoCAD	● ● ● ● ○
Revit	● ● ● ○ ○
Photoshop	● ● ● ● ○
Illustrator	● ● ● ● ○
InDesign	● ● ● ● ○
GaBi ts	● ● ● ○ ○
Office	● ● ● ● ○

MEMBERSHIP in SCIENTIFIC ASSOCIATIONS

- **Rete Italiana LCA**- since 2021
- **SIIV - Società Italiana Infrastrutture Viarie** - since 2022
- **RILEM** - since 2023
- **AIS - Associazione Infrastrutture Sostenibili** - since 2023

TECHNICAL-ADMINISTRATIVE MANAGEMENT OF PROJECTS AND OTHER SCIENTIFIC INITIATIVES

- Member of the Organizing Committee of "RILEM 2022 Palermo- Cluster F annual meeting, International and National events" - Palermo, September 19-21, 2022
- Member of the Technical Committee of "MAIREINFRA 2023 - Maintenance and Rehabilitation of Constructed Infrastructure Facilities", Honolulu, Hawaii, August 16-19, 2023
- Member of the Young Member Committee for the organization of PavementLCA 2024 in Virginia, USA (6-8 Jun 2024)
- Member of the Organizing Committee of Kick-off Meeting of PowerCN2050 - Palermo, 23-27 Novembre 2023
- Support in writing proposals for achieving projects fundings (i.e. PRIN2022)

- Reviewer of the International Journal "Construction and Building Materials"

OTHER TECHNICAL ACTIVITIES

- Support in the management of SMARTlab projects social pages (i.e. LinkedIn and facebook)

ACTIVITIES FOR ADVANCING SUSTAINABLE PRACTICES

- Consultancy for developing an EPD of asphalt mixtures with Vilnius Tech University, Lithuania
- Contributor for the position paper of Associazione Infrastrutture sostenibili for advancing LCA practices into Italian road sector

ACTIVE PARTECIPATION TO SCIENTIFIC PROJECTS

- **SYRAF - Synthesised Results and Applicable Findings of CEDR 2017 "New Materials" Call** funded by: CEDR (Conference of European Directors of Roads) Transnational Road Research Programme
- **PavementLCM - a complete package for Life Cycle Management of green asphalt mixtures and road pavement** funded by: CEDR (Conference of European Directors of Roads) Transnational Road Research Programme
- **CRABforOERE - Cold Recycled Asphalt Bases for Optimised Energy and Resource Efficient Pavements** funded by: CEDR (Conference of European Directors of Roads) Transnational Road Research Programme

The participation to these projects is proved by the deliverables.

PARTECIPATION TO TASK GROUPS

- **RILEM TAPS TG1** - Life Cycle Sustainability Assessment - Group on methodological advancements on Life Cycle Sustainability Assessment of asphalt mixtures, considering the three dimensions of sustainability.
- **"LCA di Conglomerati bituminosi"** - Group on methodological advancements on LCA of asphalt mixtures proposed by Associazione Infrastrutture Sostenibili
- **RILEM TC WMR TG4** - Valorisation of Waste and Secondary Materials for Roads - Environmental assessment with LCA

CONFERENCES AND EVENTS

(if during the event a presentation was performed, title and duration are specified)

- 6th International Symposium on Pavement, Roadway, and Bridge Life Cycle Assessment - Paving the Way to Sustainability and Bridging the Gaps in Life Cycle Assessment" - Arlington, Virginia, USA, 06-08th Jun 2024
- RILEM Cluster F Annual Meeting - Lyon, 07-09th November 2023
- XVIII Conference on Life Cycle Management - LCM23- Lille, France, 6-8 September 2023 - 10 minutes presentation with "A methodology for Life Cycle Sustainability Assessment in road pavements industries"
- International Summer School of SFB/TRR 339 - Digital Twin Roads - Bergich Gladbach, Germany, 21-25th August 2023
- XVII Convegno dell'Associazione Rete Italiana LCA - 30 anni di Life Cycle Assessment- Sviluppi metodologici ed applicativi, Milan, 28-30th Jun 2023 - 10 minutes presentation with "Un'applicazione del Sustainability Assessment Framework per le pavimentazioni stradali in Europa"
- International Symposium on Pavements for Carbon Neutral and Digitalized Roads - Granada, 1st March 2023 - 5 minutes presentation with "BIM4LCSA: Evaluation of Road Pavements Sustainability using Life Cycle Sustainability Assessment (LCSA) as methodology and Building Information Modelling (BIM) for data repository"
- Transport Research Arena - Lisbon, 14-17th November 2022- Poster + 3 minutes pitch presentation with "A Framework for Life Cycle Management of Road Pavements in Europe"
- SIIV Summer School - Sustainable Pavements and Road Materials - Naples, 5-9th September 2022- 10 minutes presentation with "Developing a Life Cycle Management methodology for road pavements"
- RILEM Cluster F Annual Meeting - Palermo, 19-20th September 2022
- XVI Convegno dell'Associazione Rete Italiana LCA - La sostenibilità nel contesto del PNRR: il contributo della Life Cycle Assessment, Palermo, 22-24th Jun 2022 - 10 minutes presentation with "Life Cycle Management delle pavimentazioni stradali"
- 1st International Online Conference on Infrastructures 2022 - Online, 7-9th Jun 2022 - 5 minutes presentation with "Investigating tools for Sustainability Assessment of road pavements in Europe"
- Life Cycle Management Conference- Online, September 2021 - Poster
- 2021 International Conference on Resource Sustainability | Sustainable Pavement Technologies - Online, May 2021

PUBLICATIONS

Scientific Reports

- Lo Presti, D., Mollenhauer, K., Vega, I. I., & Buttitta, G. (2022). *Synthesised Results and Applicable Findings of CEDR Call 2017 New Materials (SyRAF)* (No. CR2022-05) - ISBN: 979-10-93321-65-3 - <https://www.cedr.eu/docs/view/6250155931c63-en>
- Lo Presti, D., Carrion, A. J. D. B., Parry, T., Neves, L., Abed, A., Buttitta, G., ... & Kalman, B. (2021). *Call 2017 New Materials PavementLCM Final Report: A Package for Implementing Life Cycle Management of Road Pavement* (No. CR2022-02). ISBN: 979-10-93321-62-2 - <https://cedr.eu/docs/view/622f6c6ecc2db-en>
- Lo Presti, D., Buttitta, G., Jiménez del Barco Carrión, A., *PavementLCM Guidelines* - | Report for PavementLCM Project (CEDR call "New Materials") - <https://www.cedr.eu/docs/view/61b9ebb7df179-en>
- Lo Presti, D., Buttitta, G., Jiménez del Barco Carrión, A., *Sustainability Assessment for Road Pavements: State-of-the-art + Framework* | Report for PavementLCM Project (CEDR call "New Materials") - <https://www.cedr.eu/docs/view/61b9e7e9803d9-en>
- Lo Presti D., Buttitta, G., K. Mantalovas, *LCA of CRAB Mixtures* | Report for CRABforOERE Project (CEDR call "New Materials") - <https://www.cedr.eu/docs/view/61961be70119c-en>

Scientific Papers in International Journals

- Abed, A., Godoi Bizarro, D. E., Neves, L., Parry, T., Keijzer, E., Lo Presti, D., Buttitta, G... & Airey, G. (2023). *Uncertainty analysis of life cycle assessment of asphalt surfacings*. Road Materials and Pavement Design, 1-20.
- Buttitta, G.; Giancontieri, G.; Parry, T.; Lo Presti, D. (2023), Modelling the Environmental and Economic Life Cycle Performance of Maximizing Asphalt Recycling on Road Pavement Surfaces in Europe, Sustainability 2023, 15, 14546. <https://doi.org/10.3390/su151914546>

Chapter in books

- Lo Presti, D., del Barco Carrión, A. J., Buttitta, G., Keijzer, E., Piao, Z., Kleizienė, R., ... & Wang, D. (2023). Life Cycle Assessment of Asphalt Mixtures with WMR. In *Valorisation of Waste and Secondary Materials for Roads: State-of-the-Art Report of the RILEM TC 279-WMR* (pp. 91-129). Cham: Springer International Publishing.

Conference papers

- Buttitta, G., Milazzo, S., Mignini, C., Hennig Osmari, P., Ghani, U., Giancontieri, G., Lo Presti, D., 2003, Un'applicazione del Sustainability Assessment Framework per le pavimentazioni stradali in Europa, in: Associazione Rete Italiana LCA, XVII Convegno dell'Associazione Rete Italiana LCA, Life Cycle Assessment - sviluppi metodologici e applicativi, 313-321.ù

- Lo Presti, D., Carrion, A. J. D. B., Parry, T., Neves, L., Keijzer, E., Kalman, B., ... & Mantalovas, K., 2023. A Framework for Life Cycle Management of Road Pavements in Europe. *Transportation Research Procedia*, 72, 1552-1559.
- Ghani, U., Milazzo, S., Giancontieri, G., Mignini, C., Buttitta, G., Gu, F., & Lo Presti, D. (2023). Unveiling the Benefits of Engineered Crumb Rubber for Asphalt Mixtures via Performance-Related Characterization: Rutting Behavior. *MAIREINFRA* 2023. <https://doi.org/10.3390/engproc2023036039>
- Buttitta, G.; Giancontieri, G.; Milazzo, S.; Mignini, C.; Hennig Osmari, P.; Ghani, U.; Lo Presti, D., (2022). *Investigating Tools for Sustainability Assessment of Road Pavements in Europe.*, *Eng. Proc.* 2022, 17, 34. <https://doi.org/10.3390/engproc2022017034>
- Buttitta G., Lo Presti, D., *Life Cycle Management methodology for Road Pavements*, in Abbondati, F. (2022). *Sustainable Pavements and Road Materials: Proceedings of the 7th SIIV Arena, Naples, Italy 9th September 2022*. FedOA-Federico II University Press. - <https://doi.org/10.6093/978-88-6887-147-5>
- Buttitta, G., Milazzo, S., Mignini, C., Hennig Osmari, P., Ghani, U., Giancontieri, G., Lo Presti, D., (2022). *Life Cycle Management delle pavimentazioni stradali, in Rete Italiana LCA, Atti del XVI Convegno dell'Associazione Rete Italiana LCA, 22-24 Giugno 2022 - ISBN: 9791221004588*

Posters at conferences and other scientific events

- Lo Presti, D., Jimenez Del Barco Carrion, A., Parry, T., Neves, L., Keijzer, E., Kalman, B., Buttitta, G., Mantalovas, K., A Framework for Life Cycle Management of Road Pavements in Europe - Transport Research Arena - Lisbon, November 2022
- Buttitta, G., Jiménez del Barco Carrión, A., Parry, T., Keijzer, E., Kalman, B., Mantalovas, K., Lo Presti, D., A framework for Sustainability Assessment of European road pavements - RILEM 2022 Cluster F annual meeting and National events - Palermo, September 2022
- Lo Presti D., Giancontieri, G., Buttitta, G., Mantalovas, K., Mignini, C., Mollenhauer, K., Graziani, A., Gaudefroy, V., Bjurström, H., Winter M., Cold recycled asphalt bases for optimized energy & resource efficiency - RILEM 2022 Cluster F annual meeting and National events - Palermo, September 2022