

Academic Curriculum Vitae

Personal Information	
First name	Anna
Last name	Ruini
Contact	
Address	
Social media	

Education	
PhD programme	Sustainable development and climate change
Standard Programme Duration	Three years
University name	IUSS Pavia – University of Siena
Name of supervisors	Federico Maria Pulselli
Start date	01-11-2022
End date	Ongoing
Grade	NA
Country	Italy
MSc Degree	Ecotoxicology and environmental sustainability
Standard Programme Duration	Two years
University name	University of Siena
Name of supervisors	Simone Bastianoni, Fabio Sporchia
Start date	16-08-2019
End date	02-03-2022
Grade	110/110 with honors and mention
Thesis title	A new shared responsibility allocation method to promot low impact industrial symbioisis
Country	Italy
BSc Degree	Chemistry
Standard Programme Duration	Three years
University name	University of Modena and Reggio Emilia
Start date	16-09-2012
End date	19-07-2019
Grade	107/110
Thesis title	Approfondimenti chimico-diagnostici su affreschi del XVI secolo
Country	Italy

Work Experience	
Position	PhD student
Name of work place	IUSS Pavia – University of Siena
Address of work place	Department of physical sciences, earth and environment, Piazzetta Enzo Tiezzi 1, 53100, Siena
Country	Italy
From date	01-11-2022
To date	Ongoing
Research topic	Attribution of responsibility for GHG emissions and other impacts in circular economies and industrial symbioses

Position	Visiting PhD student
Name of work place	Aalborg University, the Department of Planning.
Address of work place	Rendsburggade 14, 9000 Aalborg
Country	Denmark
From date	19-09-2023
To date	19/03/2024
Research topic	LCA partitioning methods in GHG accounting and LCA applied to IS
Position	Graduate research fellow – "Borsista di ricerca"
Name of work place	University of Siena
Address of work place	Department of physical sciences, earth and environment, Piazzetta Enzo Tiezzi 1, 53100, Siena
Country	Italy
From date	25-05-2022
To date	25-11-2022
Research topic	"Environmental Accounting Methodologies for the Circular Economy". - "Metodologie di Contabilità Ambientale per l'economia circolare", Life Cycle Assessment (LCA) methodology applied to circular economy.

Contact Information of Referees	
Referee	
First name	Federico Maria
Last name	Pulselli
Title	Associate professor
Work place	University of Siena, department of physical, earth and environmental sciences
Address	Pian dei mantellini 44
Postal code	53100
City	Siena
Country	Italy
Email	federico.pulselli@unisi.it
Phone	+39 0577 235737
Relation to applicant	Master thesis supervisor

Other Work Experience

1. **Academic tutor-Student**, University of Siena, 12/2020-03/2022
2. **Tutor for Special Needs Students**, University of Siena, 12/2020-10/2021
3. **Didactic activity**: University of Siena, spring semester, 2024 ,
 - I. Teaching assistant, LCT Glossary, environmental and sustainable economic, Master Degree Course in Economics for the Environment and Sustainability Prof. Federico Maria Pulselli, UNISI, 11 April 2024, 2 hours.
 - II. Applicazione e analisi delle principale linee guida di contabilità ambientale (i.e.GHG prodtocon, LCA attributional ISO, PEF) a esempi reali di simbiosi industriale, matser degree in ecotossicologia e sostenibilità ambientale, Prof. Nadia Marchettini, UNISI, 16 April 2024, 4 hours
 - III. Teaching activities at Aalborg University for a workshop for companies under the supervisor of Prof. Massimo Pizzol, GHG protocol and Industrial symbiosis, 11 January 2024, 20 min.

4. **Dissemination activity**, Tutor for high school student: lesson and interactive activity about sustainability and climate change(2022-223-2024).
5. **Training activity**: creating and preparing training activity for company
 1. **ASSOSERVIZI S.R.L.** (March 2023/ May 2023), 8 hour: the assignment involves training, preparation, and support for the projects: "The Circular Economy System in Valdelsa" (ID 2818847), "The VAL.D.E.L.S.A. project" (ID 2818849), and "LCA: methodology and operational tools" (ID 2818853). I focus on LCA methodology and circular economy training and preparation, aligning with my research in Industrial Symbiosis and potentially leading to beneficial collaborations.
 2. **KION (May-June 2024)**, 8 hour: I participate in creating and preparing four lessons on Introduction to LCA methodology, using interactive examples (using Slido and interactive whiteboard), and practical examples on a company product.

List of Publications

Journal articles

1. Bastianoni, S., Goffetti, G., Neri, E., Patrizi, N., **Ruini, A.**, Sporchia, F., Pulselli, F.M., 2023. LCA based circularity indices of systems at different scales: a holistic approach. *Science of The Total Environment* 897, 165245. <https://doi.org/10.1016/j.scitotenv.2023.165245>

Conference presentations

1. Niccolucci V.*, Neri E., Marchi M., Meffo Kemda M., **Ruini A.**, Bastianoni S. Towards a simplified lca for agrifood products: evidence from agritech national project, 20 th National congress of the division of environmental chemistry and chemistry for cultural heritage of the Italian Chemical Society. Ischia, Italy. 28/09/2023-01/10/2023 - **Oral presentation**
2. **Ruini, A.**; Sporchia, F.; Patrizi, N.; Neri, E.; Pulselli F.M.; Bastianoni, S. Emergy evaluation of circular economies: benefit allocation and significance of indicators. In *Emergy Conference 2023 – Book of Abstracts, Gainesville, Florida, USA. 12/01/2023-14/01/2023.* - **Oral presentation**
3. **Ruini, A.**; Sporchia, F.; Bruno, M ; Esposito, G.; Zarroli, G.; Marchettini,N.; Bastianoni, A *Holistic Assessment Framework to Encourage and Promote Industrial Symbiosis Practices* . In Giannetti, B.F.; Almeida, C.M.V.B.; Agostinho, F. (editors): *Advances in Cleaner Production, Proceedings of the 11h International Workshop, Florence, Italy. 15/07/2022, pag. 26–* **Oral presentation**
4. Bastianoni, S.; Sporchia, F.; **Ruini, A.**; Patrizi, N.; Neri, E.; Pulselli, F. M. Enhancing circularity to limit environmental impact of a composite system: a quantification framework. *XIX National Congress of the Environmental and Cultural Heritage Division of the Italian Chemical Society. 20/06/2022-23/06/2022, Turin, Italy, ISBN: 978-88-94952-28-5 –* **Poster presentation**
5. **Anna Ruini**; Fabio Sporchia; Alessia Le Rose, Carmela Gioia; Nicoletta Patrizi; Simone Bastianoni, Timber buildings and the environmental benefits of cascading: LCA application to circular practices in the wood value chain, *160th ISOCARP World Planning Congress “Reinventing The (In)visible Cities”* Siena, Italy, 8-12 October 2024 (presenter)- **Oral presentation**

Acknowledgments, awards, memberships

- 2023
 - Junior member of the Italian Chemical Society (Società Chimica Italiana – SCI)

- 2022
 - Special mention for the conference presentation “A Holistic Assessment Framework to Encourage and Promote Industrial Symbiosis Practices” given at the 11h International Workshop Advances in Cleaner Production, Florence, Italy. 15/07/2022