

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name	ROBERTA JACOBY CUREAU
Address	
Telephone	
E-mail	
Nationality	
Date and place of birth	

EDUCATION AND TRAINING

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| • Dates (from – to) | November 2020 to January 2023 |
| • Name and type of organization providing education and training | Università degli Studi di Perugia – CIRIAF Interuniversity Research Center, Italy |
| • Principal subjects/occupational skills covered | PhD student.
Research on urban microclimate, urban heat islands, and multi-domain human comfort in the built environment. Application of mobile monitoring as a tool for characterizing the urban environment and identifying environmental-related risks on a hyperlocal scale.
Supervisor: Professor Anna Laura Pisello. |
| • Title of qualification awarded | Ph.D. in Energy and Sustainable Development |
| • Dates (from – to) | March 2017 to February 2019 |
| • Name and type of organization providing education and training | Federal University of Santa Catarina (Universidade Federal de Santa Catarina - UFSC), Brazil |
| • Principal subjects/occupational skills covered | Studies in water savings, energy efficiency, indoor comfort in the built environment and solar energy. Master thesis on water and energy savings.
Supervisor: Professor Enedir Ghisi. |
| • Title of qualification awarded | Master of Civil Engineering (Area of Concentration: Civil Construction / Line of Research: Environmental Comfort and Energy) |
| • Dates (from – to) | February 2012 to March 2017 |
| • Name and type of organization providing education and training | Santa Catarina State University (Universidade do Estado de Santa Catarina - UDESC), Brazil |
| • Principal subjects/occupational skills covered | Studies in building engineering: construction materials, building structure analysis and design, building systems, building cost estimating, work planning.
Graduated with honors. |
| • Title of qualification awarded | Bachelor of Civil Engineering |

RESEARCH AND ACADEMIC EXPERIENCE

- Dates (from – to) May 2023 - ongoing
- Name of employer Department of Engineering, Università degli Studi di Perugia, Perugia, Italy
- Occupation or position held Researcher (Assegnista di Ricerca)
- Main activities and responsibilities Research on thermal energy analysis of the performance of building envelope elements, impact of building envelopes in the anthropogenic heat released, urban microclimate, and urban heat islands.

- Dates (from – to) November 2020 to January 2023
- Name of employer CIRIAF Interuniversity Research Center - EAP Lab (Environmental Applied Physics Lab), Perugia, Italy
- Occupation or position held Ph.D. Student Researcher
- Main activities and responsibilities Research on urban microclimate, urban heat islands, mobile monitoring, multi-domain human comfort in the built environment, and mitigation strategies to improve comfort outdoors.

- Dates (from – to) June 2023 to September 2023
- Name of employer Princeton University - Department of Civil and Environmental Engineering, Princeton, USA
- Occupation or position held Visiting Student Research Collaborator
- Main activities and responsibilities Research on urban microclimate and thermal comfort in the built environment using numerical models of urban canyon.

- Dates (from – to) March 2017 to February 2019
- Name of employer Federal University of Santa Catarina (UFSC) - LabEEE (Laboratory of Energy Efficiency in Buildings), Florianópolis, Brazil
- Occupation or position held Master Student Researcher
- Main activities and responsibilities Research on water savings, water-energy nexus, energy efficiency in buildings, and indoor comfort in the built environment.

- Dates (from – to) August 2016 to November 2016
- Name of employer Santa Catarina State University (UDESC), Joinville, Brazil
- Occupation or position held Undergraduate Volunteer Researcher
- Main activities and responsibilities Research on water-saving plumbing fixtures, under the supervision of Professor Elisa Henning.

- Dates (from – to) August 2014 to July 2015
- Name of employer Santa Catarina State University (UDESC), Joinville, Brazil
- Occupation or position held Undergraduate Researcher
- Main activities and responsibilities Research on water savings and operating conditions of plumbing fixtures, under the supervision of Professor Andreza Kalbusch.

- Dates (from – to) February 2014 to July 2014
- Name of employer Santa Catarina State University (UDESC), Joinville, Brazil
- Occupation or position held Student Tutoring
- Main activities and responsibilities Assistance to Fluid Mechanics course students.

OTHER WORK EXPERIENCES

- Dates (from – to) September 2015 – November 2016
- Name of employer RA Engenharia, Joinville, Brazil
- Type of business or sector Civil engineering projects
- Occupation or position held Internship
- Main activities and responsibilities Building design: hydraulic, sanitary, and drainage design for buildings. Building cost estimating.

MOTHER TONGUE	PORTUGUESE
OTHER LANGUAGES	
	ENGLISH (B2 LEVEL CERTIFIED BY CENTRO LINGUISTICO DI ATENEO – CLA, UNIVERSITY OF PERUGIA)
• Reading skills	GOOD
• Writing skills	GOOD
• Verbal skills	GOOD
	ITALIAN
• Reading skills	GOOD
• Writing skills	INTERMEDIATE
• Verbal skills	GOOD
TECHNICAL SKILLS AND COMPETENCES	
LABORATORY INSTRUMENTS	Good ability to utilize portable and fixed sensors for measuring the most important environmental parameters in both indoor and outdoor settings (e.g., microclimate stations for monitoring air temperature and relative humidity, globe thermometer, thermocamera, anemometer, luxmeter, pyranometer, sensors for detecting pollutants such as CO ₂ and particulate matter, sonometer).
COMPUTATIONAL TOOLS	Data analysis and visualization: R programming language, MATLAB, Tableau, SPSS. Modelling: AutoCAD. Microsoft Office tools: Word, Excel, PowerPoint.
PUBLICATIONS	
JOURNAL ARTICLES (SCOPUS INDEXED JOURNALS)	<p>Bavaresco, M.; Gnecco, V.; Pigliautile, I.; Piselli, C.; Bracht, M.; Cureau, R.; De Souza, L.; Geraldi, M.; Vasquez, N.G.; Fabiani, C.; Ghisi, E.; Lamberts, L.; Melo, A.P.; Pisello, A.L. Multi-domain simulation for the holistic assessment of the indoor environment: A systematic review. <i>Journal of Building Engineering</i>, 84, 2024. https://doi.org/10.1016/j.jobe.2024.108612</p> <p>Cureau, R.J.; Pigliautile, I.; Pisello, A.L. Seasonal and diurnal variability of a water body's effects on the urban microclimate in a coastal city in Italy. <i>Urban Climate</i>, 49, 2023. https://doi.org/10.1016/j.uclim.2023.101437</p> <p>Cureau, R.J.; Pigliautile, I.; Pisello, A.L.; Bavaresco, M.; Berger, C.; Chinazzo, G.; Deme Belafi, Zs.; Ghahramani, A.; Heydarian, A.; Kastner, D.; Kong, M.; Licina, D.; Luna-Navarro, A.; Mahdavi, A.; Nocente, A.; Schweiker, M.; Vellei, M.; Wang, A. Bridging the gap from test rooms to field-tests for human indoor comfort studies: A critical review of the sustainability potential of living laboratories. <i>Energy Research & Social Science</i>, 92, 102778, 2022. https://doi.org/10.1016/j.erss.2022.102778</p> <p>Cureau, R.J.; Pigliautile, I.; Kousis, I.; Pisello, A.L. Multi-domain human-oriented approach to evaluate human comfort in outdoor environments. <i>International Journal of Biometeorology</i>, 2022. https://doi.org/10.1007/s00484-022-02338-7</p> <p>Piselli, C.; Balocco, C.; Pigliautile, I.; Fabiani, C.; Cureau, R.J.; Scirpi, F.; Carletti, C.; Pisello, A.L.; Cotana, F. Microclimate assessment at real experimental conditions for green energy urban policy. <i>International Journal of Sustainable Development and Planning</i>, 17, 5, 2022. https://doi.org/10.18280/ijstdp.170501</p>

Chàfer, M.; Tan, C.L.; **Cureau, R.J.**; Hien, W.N.; Pisello, A.L.; Cabeza, L.F. Mobile measurements of microclimatic variables through the central area of Singapore: An analysis from the pedestrian perspective. *Sustainable Cities and Society*, 83, 103986, 2022. <https://doi.org/10.1016/j.scs.2022.103986>

Cureau, R.J.; Pigliautile, I.; Pisello, A.L. A New Wearable System for Sensing Outdoor Environmental Conditions for Monitoring Hyper-Microclimate. *Sensors*, 22(2), 502, 2022. <https://doi.org/10.3390/s22020502>

Cureau, R.J.; Ghisi, E. Electricity savings by reducing water consumption in a whole city: A case study in Joinville, Southern Brazil. *Journal of Cleaner Production*, 61, 121194, 2020. <https://doi.org/10.1016/j.jclepro.2020.121194>

Cureau, R.J., Ghisi, E. Reduction of Potable Water Consumption and Sewage Generation on a City Scale: A Case Study in Brazil. *Water*, 11(11), 2351, 2019. <https://doi.org/10.3390/w11112351>

CONFERENCE PAPERS

Cureau, R.J.; Domenighini, P.; Pigliautile, I.; Cotana, F.; Pisello, A.L. (2023). A multi-domain comfort walk: cross-modal interactions on acoustic perception. *Forum Acusticum 2023 – 10th Convention of the European Acoustics Association* (September 2023).

Pigliautile, I.; **Cureau, R.J.**; Gnecco, V.M.; Barna, E.; Belussi, L.; Chinazzo, G.; Danza, L.; Belafi, Z.D.; Deng, Z.; Dong, B.; Karimian, H.; Nagy, B.V. An international Round Robin Test in test rooms: moving forward together to understand human-building interactions. *Healthy Buildings Europe 2023: Beyond Disciplinary Boundaries* (June 2023).

Cureau, R.J.; Pigliautile, I.; Kousis, I.; Pisello, A.L. (2023). Multi-domain approach to evaluate human comfort outdoors: a case study in central Italy. *Proceedings of the XXIII Congresso Nazionale CIRIAF* (April 2023).

Cureau, R.J.; Bavaresco, M.V.; Pigliautile, I.; Fabiani, C.; Pisello, A.L. (2022). Crossed effects of visual factors on human thermal response. *CLIMA 2022 Conference* (May 2022). <https://doi.org/10.34641/clima.2022.276>

Cureau, R.J.; Pigliautile, I.; Pisello, A.L. (2022). Cooling effects in a coastal city in Italy. *Proceedings of the XXII Congresso Nazionale CIRIAF* (April 2022).

Tarpani, E.; Bitossi, L.; **Cureau, R.**; Pigliautile, I.; Pisello, A.L.; Biscarini, C. (2022). Exploring the Influencing factors of a sustainable Urban green Renewal. *Proceedings of the XXII Congresso Nazionale CIRIAF* (April 2022).

BOOK CHAPTER

Pigliautile, I.; **Cureau, R.J.**; Pisello, A.L. (2022). Human Adaptation to Higher Ambient Temperature. In: Aghamohammadi, N., Santamouris, M. (eds) *Urban Overheating: Heat Mitigation and the Impact on Health*. *Advances in Sustainability Science and Technology*. Springer. https://doi.org/10.1007/978-981-19-4707-0_5

The undersigned ROBERTA JACOBY CUREAU hereby declares that this Curriculum Vitae states only true and factual content, according with articles 46 and 47 of D.P.R. 445/2000.

She also declares to be aware of the penal sanctions in which she would incur should the declarations be untrue, mendacious or contain false data, in accordance with article 76 of the D.P.R. 28.12.2000 no. 445.

Additionally, she declares to be aware of article 75 of the D.P.R. 28.12.2000, no.445 regarding the relinquishment/loss of any benefits resulting from the action that would follow in the case that, after performing background checks and verifications, the Administration were to find proof of mendacious and false contents in the above-mentioned declaration.

Perugia, July 15, 2024.