

VIRGINIA TARDINI

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Viale del Risorgimento, 4, 40136 Bologna BO, Italia

EDUCATION

PhD <i>Mechanics and Advanced Engineering Sciences</i> University of Bologna	Nov 2023 – ongoing Bologna, Italy
Master of Engineering <i>Civil Engineering</i> University of Bologna <ul style="list-style-type: none">• Grade: 103/110	Sept 2021 – Jul 2023 Bologna, Italy
Bachelor of Engineering <i>Building Engineering</i> University of Bologna <ul style="list-style-type: none">• Grade: 107/110	Sept 2018 – Dec 2021 Bologna, Italy

WORK EXPERIENCE

Visiting Scholar at University of Illinois at Urbana-Champaign Acoustic measurements and subjective test in primary school classrooms <ul style="list-style-type: none">• Technical skills: Technical and organizational management of acoustic measurement campaigns (ISO 3382) and extraction of room criteria. Design and administration of intelligibility tests (WIPI and TROG-2) in classrooms.• E-Skills: Autocad, Photoshop, Audacity (Aurora), RStudio, Excel.	Jan 2025 - Jun 2025 Illinois, United States
Participation in acoustic design of an innovative classroom (Piscopia Corner) in Milan Acoustic design, simulation and testing of passive acoustic treatments, in collaboration with DIN (Unibo) <ul style="list-style-type: none">• Technical skills: Technical and organizational management of acoustic measurement campaigns (ISO 3382) and extraction of room criteria. Design, simulation, and test of acoustic treatments in classrooms.• E-Skills: Autocad, SketchUp, Odeon Room Acoustics, Dirac, dBTrait.	2024 Milan, Italy
Collaboration on acoustic design of Casa della Salute, Soliera, Modena Design of passive acoustic treatments and site noise management, in collaboration with DIN (Unibo) <ul style="list-style-type: none">• Technical skills: Design and simulation of acoustic treatments in enclosed spaces.• E-Skills: Autocad, SketchUp, Odeon Room Acoustics.	2023 Bologna, Italy
Collaboration on the project to improve the acoustic comfort of elementary school classrooms Improvement through numerical simulations of acoustic comfort inside classrooms, in collaboration with DIN (Unibo). <ul style="list-style-type: none">• Technical skills: Design and simulation of acoustic treatments in enclosed spaces.• E-Skills: Autocad, SketchUp, Odeon Room Acoustics.	2023 Bologna, Italy
Participation in the acoustic design of offices and meeting rooms for the PwC headquarters Acoustic measurements, design, and simulations of acoustic treatments. Collaboration with DIN (Unibo). <ul style="list-style-type: none">• Technical skills: Technical and organizational management of acoustic measurement campaigns (ISO 3382) and extraction of room criteria. Design, simulation, and test of acoustic treatments in open-plan offices.• E-Skills: Autocad, SketchUp, Odeon Room Acoustics, Dirac.	2022 Bologna, Italy
Participation in acoustic design of university classrooms, University of Udine Acoustic design and simulation of passive acoustic treatments, in collaboration with DIN (Unibo). <ul style="list-style-type: none">• Technical skills: Design, simulation, and test of acoustic treatments in lecture halls.• E-Skills: Autocad, SketchUp, Odeon Room Acoustics.	2022 Bologna, Italy
Internship <i>Department of Infrastructure and Mobility</i> Municipality of Rimini	Oct 2020 – Jan 2021 Rimini, Italy

Peer-Reviewed Journal Publications

1. **Virginia Tardini**, Giulia Fratoni, and Dario D’Orazio. Survey of national target values on classroom acoustics. *Building and Environment*, page 113299, 2025
2. Giulia Fratoni, Domenico De Salvio, **Virginia Tardini**, Massimo Garai, Paolo Valdiserri, Cesare Biserni, and Dario D’Orazio. Student Activity in Suboptimal Thermal and Acoustic Conditions: An In-Field Study in Active Classrooms. *Applied Sciences*, 15(6), 2025
3. Dario D’Orazio, Giulia Fratoni, and **Virginia Tardini**. The Italian standard on classroom acoustics UNI 11532-2: 2020 explained through case studies. *Applied Acoustics*, 231:110498, 2025
4. **Virginia Tardini**. Normativa acustica ISO 22955: 2021 e protocollo volontario WELL per gli uffici open plan: verifica dei criteri di progettazione acustica. *Rivista italiana di acustica*: 1, 2024, pages 61–70, 2024

Proceedings at International Conferences

1. **Tardini Virginia**, Giulia Fratoni, Alessia Nora, Patrizia Malatesta, Roberta Fiordi, Luca Cappellini, Matteo Tarantino, and Dario D’Orazio. Acoustic design of an innovative classroom: the Piscopia Corner in Milan. In *INTER-NOISE and NOISE-CON Congress and Conference Proceedings*, volume 270, pages 7456–7465. Institute of Noise Control Engineering, 2024

PRESENTATIONS AT NATIONAL AND INTERNATIONAL CONFERENCES

1. **Virginia Tardini**, Giulia Fratoni, and Dario D’Orazio. National standards on classroom acoustics: Key descriptors and global perspectives. *The Journal of the Acoustical Society of America*, 157(4_Supplement):A46–A46, 2025
2. **Tardini Virginia**, Giulia Fratoni, Alessia Nora, Patrizia Malatesta, Roberta Fiordi, Luca Cappellini, Matteo Tarantino, and Dario D’Orazio. Acoustic design of an innovative classroom: the Piscopia Corner in Milan. In *INTER-NOISE and NOISE-CON Congress and Conference Proceedings*, volume 270, pages 7456–7465. Institute of Noise Control Engineering, 2024
3. **Virginia Tardini**. L’aula del futuro: Piscopia Corner in Mind. In *50° Convegno Nazionale AIA*, May 2024. Taormina, 29-31 Maggio 2024
4. **Virginia Tardini**, Giulia Fratoni, and Dario D’Orazio. Summary of National Standards on classroom acoustics: The data collection. *The Journal of the Acoustical Society of America*, 155(3_Supplement):A211–A212, 2024
5. **Virginia Tardini**. Il ruolo dei controsoffitti nella verifica delle features WELL e i requisiti ISO 22955:2021. In *49° Convegno Nazionale AIA*, June 2023. Ferrara, 7-9 giugno 2023

INVITED TALKS

1. **Virginia Tardini**, Giulia Fratoni, and Dario D’Orazio. National standards on classroom acoustics: Key descriptors and global perspectives. *The Journal of the Acoustical Society of America*, 157(4_Supplement):A46–A46, 2025
2. Guest Speaker - “Speech intelligibility”, SHS 301: General Speech Science, University of Illinois, April 22, Urbana-Champaign, 2025.
3. Guest Speaker - “Room Acoustics in theaters: between history and acoustic design”, MUS 209: Acoustics for Musicians, University of Illinois, Urbana-Champaign, April 10, 2025.
4. **Virginia Tardini**, Giulia Fratoni, and Dario D’Orazio. Summary of National Standards on classroom acoustics: The data collection. *The Journal of the Acoustical Society of America*, 155(3_Supplement):A211–A212, 2024

PARTICIPATION TO SCHOOLS

- Summer School, Sound Perception Through the Senses and Biological Sensors, Lari (PI), Italy, 18-19 July 2025.
- Autumn School Series in Acoustics (ASSA), Building and Room Acoustics, Eindhoven University of Technology (TU/e), Eindhoven, 4-8 November 2024.
- Summer School, Fundamentals in Acoustics, Forum Acusticum, Turin, 8-10 September 2023.

PARTICIPATION TO HACKATHONS

- Illinois Statistics Datathon, University of Illinois, Urbana-Champaign, 28-30 March 2025.
- European Hackathon 2023, Gustave Eiffel University, Paris, 25-27 March 2023.

TEACHING AND MENTORING

Tutor

University of Bologna

* Subject: Vehicle Acoustics M (Spring 2024). Teacher: Dr. Dario D’Orazio

Feb 2024 – Jun 2024

Bologna, Italy

Mentor

University of Bologna

* Matteo Spinelli, Master’s student.

Nov 2023 – Present

Bologna, Italy

SKILLS

Programming: Python (NumPy, SciPy, Matplotlib, SumoPy), R

Document Creation: \LaTeX , Microsoft Office Suite

Software: MATLAB, AutoCAD, Photoshop, SketchUp, Lumion, Oden Room Acoustics, dBTrait, Audacity, Dirac

HONORS AND AWARDS

ICA Young Scientist Conference Attendance Grant

International Commission for Acoustics (ICA)

May 2025

I-INCE Young Professional Congress Attendance Grants

International Institute of Noise Control Engineering (I-INCE)

Aug 2024

PROFESSIONAL SOCIETIES

- Member of Italian Association of Acoustics (AIA)