

FRANCESCO GANIS

PhD Student, Sound & Music Enthusiast

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📍 Copenhagen, Denmark

I am a PhD student at Aalborg University in Copenhagen, Denmark. I enjoy moving between technical and creative fields, building and prototyping technology. My whole life has been dedicated to music. With a keen eye for detail and a curious mindset, I dive into both collaborative and independent projects, eager to expand my knowledge and skills.

EDUCATION

PhD, Music Training Tools for Children with Hearing Impairment

Aalborg University

📅 Sep. 2022 – Ongoing

📍 Copenhagen, DK

Skills learned Research Prototyping Evaluating

- Designing, developing, and evaluating musical training solutions for children with hearing loss, including:
 - vibrotactile feedback prototype
 - video game with vibrotactile feedback for timbre recognition
 - scalable training tool for sound localization in children
 - training tool for emotion recognition in children

Master's Degree, Sound & Music Computing

Aalborg University

📅 Sep. 2020 – Jun. 2022

📍 Copenhagen, DK

Skills learned Prototyping Evaluating DSP

- Thesis: "Vibrotactile Feedback for Musical Training of Cochlear Implants Users"
- Completed courses in Sound Processing, Embodied Interaction, Music Perception and Cognition, New Interfaces for Musical Expression

Bachelor's Degree, Electronic Music & Sound Engineering

"C. Pollini" Conservatory

📅 Sep. 2016 – Apr. 2020

📍 Padova, IT

Skills learned Sound Engineering MAX/MSP Sound Design

- Graduated with honors
- Thesis: "Continuous Sonification of Autonomous Driving Vehicles with Purposes of Passengers Information and Trust Augmentation"

EXPERIENCE

Teaching Assistant

Aalborg University

📅 Sep. 2022 – Ongoing

📍 Copenhagen, DK

Skills learned Mentoring Communication Supervision

- Assisting students in the *Sound Processing* course
- Assisting students in the *Physical Models for Sound Synthesis* course
- Supervision of student projects in Medialogy and Sound & Music Computing programs

STRENGTHS

Technical Skills

Research Prototyping
Sound Engineering Evaluation
Embedded Programming DSP
MATLAB Unity Git C# C
Reaper Pro Tools MAX/MSP
Pure Data Inkscape Lightroom

Soft Skills

Teamwork Detail-oriented
Problem-solving Inquisitive
Work Dissemination Supervision
Technical Documentation

OTHER EXPERTISE

Playing Drums Photography
Driving License

LANGUAGES

Italian ● ● ● ● ●
Mother tongue

English ● ● ● ● ●
Advanced (IELTS 7.5)

PUBLICATIONS

📄 Journal Articles

- F. Ganis, A. Gulli, F. Fontana, and S. Serafin, "The role of haptics in training and games for hearing-impaired individuals: A systematic review," *Multimodal Technologies and Interaction*, vol. 8, no. 1, p. 1, 2023.

Student Helper

Aalborg University

Oct. 2021 – Apr. 2022

Copenhagen, DK

Skills learned Audio Programming Web Development

- Created sound examples in MATLAB for the book *Serafin, S., Buxton, B., Gaver, B., & Bly, S. (2022). Auditory interfaces. Focal Press*
- Developed and maintained websites

Internship

Oticon Medical

Oct. 2021 – Jan. 2022

Copenhagen, DK

Skills learned Product Development Prototyping Evaluation

- Development of smartphone cover that provides high-quality vibrotactile feedback to support music listening for individuals with hearing impairment

ICT Technician

GAMA S.r.l.

Dec. 2019 – Jan. 2020

Tavagnacco, IT

Skills learned Technical Support Hardware Maintenance

- Audio and conferencing systems' installation and maintenance
- Assembling and repairing PCs, workstations and small servers

Sound Engineer

Various

2017 – 2018

Veneto Region, IT

Skills learned Sound Engineering Live Electronics

- Centro D'Arte & C. Pollini Conservatory - *Live Electronics, Sound Engineering for 11 Channels Sound System*
- RmS Recording Studio - *Boom Operator, Editing Technician*
- Bluetrain's Studio - *FoH Sound Engineer, Live Stage Technician, Live Video Director*

Internship

Danieli Automation S.p.A.

Jun. 2013 – Jul. 2013

Buttrio, IT

Skills learned Prototyping Industrial Design

- Design and creation of a working prototype of a measurement system for foundry equipment

Conference Proceedings

- F. Ganis, "Tickle tuner-haptic smart-phone cover for cochlear implant users' musical training," in *HAID 2022, London, UK*, Springer Nature, vol. 13417, 2022, p. 14.
- F. Ganis, E. F. Knudsen, S. V. Lyster, R. Otterbein, D. Südholt, and C. Erkut, "Real-time timbre transfer and sound synthesis using ddsdp," in *SMC 2021, SMC Network*, 2021, pp. 175–182.

Albums

- M. Finco and R. Scarpa-Meylougan, *Six flute sonatas op.1*, album, EAN Code: 7.93588412371, Japan, 2018.

FURTHER TRAINING

Masterclass, Live Electronics

Chigiana Academy

Jul. 2019

Siena, IT

Masterclass, Symphonic Orchestra Recording

G. A. Fano Institute

Jul. 2018

Spilimbergo, IT

Safety Course, Workers in Medium Risk Environments

I.S.I.S. Arturo Malignani

Jun. 2013

Udine, IT

Diploma, Music, Theory and Solfège

G. Tartini Conservatory

Sep. 2009

Trieste, IT

REFEREES

Prof. Stefania Serafin

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Prof. Nicola Bernardini

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