FRANCESCO GANIS

PhD Student, Sound & Music Enthusiast

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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`

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 vibro-tactile 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 Convervatory - *Live Electronics, Sound Enigneering 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 smartphone 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 ddsp," 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

REFERENCES

Prof. Stefania Serafin
@ Aalborg University, Copenhagen - DK
✉ sts@create.aau.dk

Prof. Nicola Bernardini
@ Conservatorio di Latina, Latina - IT
✉ nicb@sme-ccppd.org

Prof. Lone Percy-Smith
@ Righospitalet, Copenhagen - DK
✉ lone.percy-smith@regionh.dk