BUCCIO DECONCELLI

PhD Student in Smart Computing

@ meconcelliduccio@gmail.com | 🌐 duccio.me | 🖸 GitHub | 🖸 Buonconvento, Italy

AI Explorer <ö> | Generative Alchemist <°)> PhD Student in Smart Computing

[-] Passionate about Artificial Intelligence, focusing on Generative Models (Diffusion Models). [>] Blending engineering fundamentals with hands-on software development & Machine Learning. [*] Always in pursuit of applying AI to complex, innovative, and creative challenges.

{==[Code | AI | Retro-tech | Generative Art]==}



Eurrent Position.

PhD Student in Smart Computing

University of Florence / University of Siena, Italy

- [*] PhD program in Smart Computing, University of Florence.
- [*] Current Research activities: Generative Models (especially Diffusion Models) for Drug Discovery / Bioinformatics, Graph Neural Networks, Transformers and COT.
- [*] Active collaboration with the Department of Information Engineering and Mathematical Sciences (DIISM), University of Siena.

📚 Education .

Master's Degree: AI & Automation Eng.

University of Siena, Italy Thesis: Organic Molecule Generation using Latent Diffusion (Superv: Prof. F. Scarselli). Grade: 110/110 cum laude.

Bachelor's Degree: Info. Eng.

University of Siena, Italy Thesis: Deep Learning Methods for Renal Glomeruli Segmentation (Superv: Prof. M. Bianchini). Grade: 106/110.

High School Diploma (Scientific)

Liceo Scientifico "G. Galilei", Siena, Italy Grade: 78/100.



Adjunct Professor / Contract Lecturer

Fondazione 'FISM', Florence, Italy Teaching: Frontend Dev + Best Practices. Topics: Terminal, Git/GitHub, React, JS(ES6+), Debugging, Docs, OpenAPI.

Software Developer & Machinery Assembly Assistant

DAINESE SRL, Buonconvento (SI), Italy Developed winery management web app (React). DB design/impl. Assembled enological machinery, optimized production processes.

Nov 2024 - Present

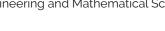
Oct 2022 - May 2024

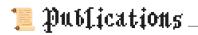
Sep 2018 - Apr 2022

Sep 2013 - Jul 2018

March 2025

May 2022 - Sep 2022





Gaussian-mixture Neural Networks

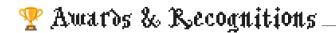
ANNPR 2024 Conference Proceedings

Authors: D. Meconcelli, E. Trentin ANN training for PDF prediction w/ unlabeled data. [->] Link

DeepLearning Approaches for mice glomeruli segmentation

ESANN 2022

Authors: *D. Meconcelli, S. Bonechi, G. M. Dimitri*. DL architectures for glomerulus segmentation in histopathological images of mouse kidneys.[->] Link



Premio Renato Mariani

Italian Association for Electrical, Electronics, Automation, Informatics and Telecommunications – Tuscany and Umbria Section

Award for a new master's graduate in the calendar year 2024. The Italian Association for Electrical, Electronics, Automation, Informatics and Telecommunications – Tuscany and Umbria Section, funded by Eng. Enrico Mariani (former President of the Florence Section and distinguished AEIT member), awards its first prize named in honor of his late son, Dr. Renato Mariani. **Ranking:** 1



Machine Learning / AI :

- + Deep Learning (PyTorch)
- + CNN, RNN, GAN, Transformer
- + Diffusion Models
- + Graph Neural Networks (GNN)

Programming:

- + Python (Adv: NumPy, Pandas, telegram bot)
- + SQL (PostgreSQL)
- + JavaScript (React, Node basic)
- + Shell Scripting (Bash)
- + C (Basics)
- + modern C++

Software Dev :

- + REST APIs (Flask, FastAPI)
- + Web Dev (HTML, CSS, React, Vite)
- + Version Control (Git/GitHub)
- + 3D CAD (Fusion 360)

Tools / Other :

- + Linux
- + Docker
- + LaTeX

Languages :

- + Italian (Native)
- + English (B1)

Interests

3D Printing: Hands-on experience with 3D modeling, slicing software, and printer maintenance. Enthusiastic about rapid prototyping, custom designs, and DIY engineering projects.

Homelab: Self-hosted services, network administration, virtualization, and home automation. Passionate about security, performance optimization, and self-sufficiency in tech.

Gaming: Hardcore Nintendo fan with a deep appreciation for retro gaming. Lifelong admirer of the *Metal Gear* series and immersive storytelling in games.

Movies & Series: Sci-fi and cyberpunk enthusiast. Huge fan of *Cowboy Bebop* and auteur cinema—particularly *Oldboy* (Park Chan-wook).

Tech: Active open-source coder with a strong interest in AI ethics and safety. Constantly exploring and testing emerging frameworks and technologies.

Generative ART: Passionate about AI-driven creativity art. Experimenting with ASCII-based visuals, pixel art, and procedural generation inspired by retro aesthetics.

Other: Category B driving license. Open to travel, new experiences, and international opportunities.

SEE YOU SPACE COWBOY ...

Sep 2024

Oct 2022

March 2025