

tommaso guidi

raised in florence, based in siena (italy)



i'm tommaso, but everyone calls me masaccio. i study artificial intelligence and how to make it learn over time. i like big challenges and hunting for non-trivial solutions to complex problems; ideally, i also like finding them. a necessary but not sufficient condition for that to happen is looking at reality from multiple points of view, and being willing to change perspective.

■ working experience

- 2026– **co-founder · unaiverse** ↗
peer-to-peer network for human-ai agents.
- 2025– **research fellow · diism, università degli studi di siena**
research fellowship on the theory of learning and reasoning without access to data (project constr, fair extended partnership, pnrr), renewed in 2026.
- 2023 **research collaborator · ifac-cnr, istituto di fisica applicata nello carrara**
navigator project (funded by regione toscana): computer aided detection of cancer in medical imaging.
- 2022–2024 **ai engineer · aigea s.r.l.**
development of the deepmammo model for breast cancer detection in screening mammography.
- 2021–2022 **research intern · ifac-cnr, istituto di fisica applicata nello carrara**
ai applications in medical imaging (cad of kidney, lung and prostate cancer) and in cultural heritage.

■ research & education

- 2023– **phd, smart computing (xxxix ciclo)** — università degli studi di firenze
- 2021–2023 **msc, artificial intelligence and automation engineering** — università degli studi di siena · 110/110 cum laude
- 2017–2021 **bsc, ingegneria elettronica e delle telecomunicazioni** — università degli studi di firenze · 108/110

■ selected publications

- 2025 **unaiverse: a peer-to-peer network for human-ai agents** ↗
s. melacci, c. di maio, **t. guidi**, m. gori · preprint
- 2025 **back to recurrent processing at the crossroad of transformers and state-space models** ↗
m. tiezzi, m. casoni, a. betti, **t. guidi**, m. gori, s. melacci · nature machine intelligence 7(5)
- 2023 **egyptian hieroglyphs segmentation with convolutional neural networks** ↗
t. guidi, l. python, m. forasassi, c. cucci, m. franci, f. argenti, a. barucci · algorithms 16(2)

■ skills & languages

python · go · c · matlab · html/css/javascript
git · jupyter · linux · self-hosted infrastructure — deep learning · sequence models / state-space models
· medical imaging (dicom) · computer vision · data analysis
italian (native) · english (advanced)