

Nicolas COMTE, Ph.D



PROFILE

R&D Engineer with a Ph.D in Computer Vision and Deep-Learning. I have experience as a software engineer at Inria, followed by roles as an R&D engineer and Ph.D. student in collaborative projects involving Inria, Grenoble Hospitals, and Anatoscope. My expertise lies in machine learning, computer vision, and graphics, with a focus on their applications in biology and biomedical imaging.

CONTACT DETAILS

@ nicolas.comte1@gmail.com

+33 6 75 83 50 60

cometicon.github.io

PERSONAL INFORMATION

Citizenship French

Family Married, 2 children

Languages French, english

SKILLS

Computer Sci. Deep learning, Computer Vision, Computer graphics, Computational biology

Software dev. C++, Python, Git, Java

Sci. computing Pytorch, Scikit-learn, R, Matlab, Sofa

Communication \LaTeX , HTML, Gimp, Krita, Inkscape

EXPERIENCE

RESEARCH ENGINEER at *Circle Dental (France)*. **2025–pres**

- ◇ Development of Deep-Learning models for Intral Oral Scans analysis
- ◇ Agile Facilitator, Dev

RESEARCH ENGINEER at *Anatoscope (France)*. **2024–2025**

- ◇ Development of software applications for creation and automated 3D analysis of human digital twins.
- ◇ Agile Facilitator, Dev

R&D ENGINEER/PH.D STUDENT at *Inria, Anatoscope (France)*. **2019–2023**

- ◇ Industrial and research projects in medical imaging and anatomical simulation of the scoliotic spine.

SOFTWARE ENGINEER at *Inria (France)*. **2016–2018**

- ◇ Development of fast and easy-to-use software applications for molecular phylogeny.

See [Treerecs](#) and [Seaview 5](#).

+ **TEACHING** at *INSALyon* C++ programming.

RESEARCH INTERN IN COMPUTER SCIENCE at *Inria (France)*. **2016**

- ◇ Creation of artificial life models for study of evolution.
- See [Aevol](#).

INTERN IN STATISTICS at *Soladis (France)*. **2015**

- ◇ Statistical analysis, development of an R package, writing of 180-page manual on statistical programming with R.

COMPUT. BIOLOGIST, IGEM (competition), at *INSA Lyon (France)*. **2014**

- ◇ Student project for the international Biology competition IGEM (Boston, USA). Two awards.. 2 prix remportés.
- See our project [Curly'On](#)

EDUCATION

PH.D in Computer Science. *Université Grenoble-Alpes*. **2020–2023**

- ◇ Thesis title: *Learning scoliosis patterns using anatomical models and motion capture*.

ENGINEER in Bio-Informatics and Modeling. *INSA Lyon*. **2013–2016**

BACHELOR in Bio-Informatics. *Université de Lyon*. **2010–2013**

AWARDS

BEST POSTER IN ARTIFICIAL INTELLIGENCE APPLIED IN BIOMEDICAL IMAGING. *IABM 2023, Colloque National en Intelligence Artificielle en Imagerie Biomédicale*.

GOLD MEDAL and BEST COMPOSITE PART. *IGEM 2014, International Genetically Engineered Machine competition*.

HOBBIES

GRAPHICS: infographics, illustration, digital drawing and painting.

SCIENCE COMMUNICATION: member of *Démesures 2017-2019 (France)*, animator, speaker in *Geek Touch 2018, Fête de la Science 2017, 2018, ...*

PHOTOGRAPHY: nature and wildlife photography.

PROGRAMMING: various projects in simulation and artificial life...