



## PROFILE

**R&D Engineer** with a Ph.D. in Computer Science. 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 biomedical imaging and motion capture.

## CONTACT DETAILS

@ nicolas.comte1@gmail.com  
☎ +33 6 75 83 50 60  
🔗 cometicon.github.io

## PERSONAL INFORMATION

**Citizenship** French  
**Family** Married, 1 child  
**Languages** French, english

## SKILLS

**Computer Sci.** Deep learning, Computer Vision, Computer graphics, Bioinformatics  
**Software dev.** C++, Python, Git  
**Sci. computing** Pytorch, Scikit-learn, R, Matlab, Sofa  
**Communication**  $\text{\LaTeX}$ , HTML, Gimp, Krita, Inkscape

## EXPERIENCE

**R&D ENGINEER/PH.D STUDENT** at *Inria, Anatoscope (France)*. **2019–pres.**  
◇ Industrial and research projects in medical imaging and anatomical simulation.  
◇ Computer graphics, computer vision, deep-learning, anatomical simulation.

**SOFTWARE ENGINEER** at *Inria (France)*. **2016–2018**  
◇ Development of fast and easy-to-use softwares for molecular phylogeny. See 🔗 Treerecs and 🔗 Seaview 5.  
◇ C++/Python programming, software design, molecular phylogeny.  
+ **TEACHING** at *INSA Lyon* C++ programming.

**RESEARCH INTERN IN COMPUTER SCIENCE** at *Inria (France)*. **2016**  
◇ Creation of artificial life models for study of evolution. See 🔗 Aevol.  
◇ Mathematical modeling, biostatistics, molecular biology, artificial life.

**INTERN IN STATISTICS** at *Soladis (France)*. **2015**  
◇ Statistical analysis, development of an R package, writing of 180-page manual on statistical programming with R.  
◇ R programming, statistics, teaching.

## EDUCATION

**PH.D** in Computer Science. *Université Grenoble-Alpes*. **2020–2023**  
◇ Thesis title: *Learning scoliosis patterns using anatomical models and motion capture*.  
◇ Computer vision and graphics, deep-learning, biomechanics, anatomical simulations, motion capture, medical imaging.

**ENGINEER** in Bio-Informatics and Modeling. *INSA Lyon*. **2013–2016**  
◇ mathematical modeling, computer science, statistics, biology.

**BACHELOR** in Bio-Informatics. *Université de Lyon*. **2010–2013**  
◇ Mathematical modeling, computer science, statistics, biology, genomics.

## AWARDS

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

**GOLD MEDAL** and **BEST COMPOSITE PART.** *IGEM 2014, International Genetically Engineered Machine competition*.  
See our student project 🔗 Curly'On.

## PUBLICATIONS AND COMMUNICATIONS

See my 🔗 Google scholar page or 🔗 HAL profile.

## 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.