Nicolas **Comte**, Ph.D

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

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cometicon.github.io

Personal information

Citizenship French
Family Married, 1 child
Languages French, English

Skills

Computer Sc. Deep learning, Computer Vision, Computer graphics, Bioinformatics
Software dev. C++, Python, Git
Sc. computing Pytorch, Scikit-learn, R, Matlab
Communication LaTeX, HTML, Gimp, Krita, Inkscape

Experience

R&D Engineer/Ph.D student at *Anatoscope (France).* **2019–pres.**
◇ Ph.D student/engineer in industrial and research projects in medical imaging and anatomical simulation.
◇ Skills: computer graphics, computer vision, deep-learning, anatomical simulation, Python/C++ programming.

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

Research intern in Computer Science at *Inria (France).* **2016**
◇ Creation of artifical life models for study of evolution. See Aevol.
◇ Skills: Python/C++ programming, 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.
◇ Skills: 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.*
◇ Skills: computer vision, computer graphics, deep-learning, biomechanics, anatomical simulations, motion capture, medical imaging.

Engineer. in Bio-Informatics and Modeling. *INSA Lyon.* **2013–2016**
◇ Skills: mathematical modeling, statistics, machine-learning, biology.

Bachelor. in Bioinformatics. *Université de Lyon.* **2010–2013**
◇ Skills: 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), communicator, speaker in *Geek Touch 2018*, *Fête de la Science 2017, 2018* and *Art-Science 2018*.

Photography: nature and wildlife photography.