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 Sci. Deep learning, Computer Vision, Computer graphics, Bioinformatics
Software dev. C++, Python, Git
Sci. computing Pytorch, Scikit-learn, R, Matlab, Sofa
Communication 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 software applications 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.

Bioinformatician, IGEM (competition), at *INSA Lyon (France).* **2014**
◇ Creation of a genetically modified bacteria for the treatment of polluted water. Student project for the international Biology competition iGEM (Boston, USA). Curly'On
◇ R programming, statistics, modeling, genetics.

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.*

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.