Frederic COMMO, PhD
Data Scientist – Data & Analytics

Project Leader, Precision Cancer Medicine & Molecular Screening Programs

📍 France, Paris 75015 @ fredcommo@gmail.com ☎ (+33) 6 84 60 33 08 in [Frederic Commo](#) 🌐 fredcommo.github.io

Work experience

2016 - Present — **Senior Manager Data & Analytics at KPMG, Paris, France**
Big Data & Analytics custom solutions

2014 - 2016 — **Data Scientist at Gustave Roussy, Villejuif, France**
Project Leader, Bioinformatics for Precision Medicine & Molecular Screening Programs
• Data transfer/storage/analysis solutions for molecular screening programs.
Interactive aCGH Viewer an end-user server solution for visualizing and interacting with genomic profiles.
curveFitter, online application for curve fitting and drug response analysis (an extension of the nplr R package).
• **Publications:** *Ann Oncol 2015* (1st author), *Bioinformatics 2015* (1st author)
• **R package as author:** *rCGH* on Bioconductor (genomic profiling and visualization)

2012 - 2014 — **Data Scientist – Visiting Scientist at Sage Bionetworks, Seattle, WA**
• Steering Committee & Tumour Board Committee, Precision Medicine Programs.
• Computational methods for Precision Cancer Medicine (microarrays & NGS).
• **Publications:** *J Clin Oncol. 2013*, *Clin Cancer Res. 2013*, *Mol Cancer Ther. 2013*
• **R package as author:** *nplr* on CRAN (Logistic regressions for curve fitting and drug response analysis)

2007 - 2012 — **Project leader at Gustave Roussy, Villejuif, France**
Department of Translational Research & Inserm U981 (Pr Fabrice André)
• Project management & data analysis, Precision Medicine Program *SAFIR01*.
• Microarray Gene Expression analyses & meta-analyses.

2004 - 2007 — **APHP non-active status** to join Compiègne University of Technology.

1993 - 2004 — **Research Assistant**. Dpt of Pathology, TENON Hospital, Paris.

1986 - 1993 — **Laboratory technician**. Dpt of Pathology, Jean VERDIER Hospital, Bondy, France.

Education

2015 — **PhD in Oncology & Bioinformatics, University Paris-Saclay**
Genomic analysis within precision medicine: optimisations & visualization tools. Supervisor: Pr. Fabrice André

2007 — **Engineer's Diploma & M. Sci., Compiègne University of Technology (U.T.C.)**
Viva voce: *Molecular portrait of ependymoma recurrences* (*Plos One 2010* as co-1st author).

1985 — **Higher Technician Degree:** Lab Technician School, Pitié-Salpêtrière, Paris.

Continued Education

2013 — • Machine Learning, Caltech, through edX (9 weeks)
• Data Analysis, John Hopkins Univ. through Coursera (8 weeks)
• Mathematical Biostatistics, John Hopkins Univ. through Coursera (7 weeks)

2012 — • Python programming, MIT, Cambridge, USA through edX (15 weeks)

1995-98 — • Ecole Pratique des Hautes Etudes, University Paris-VI, Paris.

1991-92 — • Molecular biology applied to diagnosis, University Paris-VI, Paris.

Skills

Data Analysis — • Big Data, Statistical Inferences, Clustering, Data Modelling, Features Extraction.

Programming — • R, Python, SQL, html, CSS, javascript, Cloud Computing.

Languages — • French native, English.

Publications
• Collaboration to 48 *publications* in peer-reviewed international journals.
• Online end-user applications: *aCGHviewer*, *curveFitter*, *CellExplorer*

Teaching
• Statistical methods applied to genomics at *U.T.C. from 2008 to 2010.*
• Applied Statistics at *Ionis Engineering School, Paris, 2012*

Hobbies
Motorcycling, blues guitar, Diving (Advanced PADI certified).