



# Frederic COMMO, PhD

Lead Data Scientist – Data & Analytics at KPMG



France, Paris 75015

[fredcommo@gmail.com](mailto:fredcommo@gmail.com)

(+33) 6 28 95 43 87

[Frederic Commo](#)

[fredcommo.github.io](https://fredcommo.github.io)

## Work experience

- 2016 - present** **Lead Data Scientist, Data & Analytics group at KPMG, Paris, France**
- Machine Learning & Analytics custom solutions, Data visualization
  - 20+ team
  - 30 to 300K projects in Energy, Health Care, Banking, Retail,...
    - *Customers segmentation & profiling*
    - *Forecasting*
    - *Anomaly detection*
    - *Sentiment analysis (NLP)*
- 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](#) (1<sup>st</sup> author), [Bioinformatics 2015](#) (1<sup>st</sup> 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](#).
- 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-1<sup>st</sup> author).*
- 1985** **Higher Technician Degree:** Lab Technician School, Pitié-Salpêtrière, Paris.

## Continued Education

- 2012 - present** • Intensive MOOC user, Machine Learning, Programming techniques
- 1995-98** • Ecole Pratique des Hautes Etudes, Univ. Paris-VI, Paris.
- 1991-92** • Molecular biology applied to diagnosis, Univ. Paris-VI, Paris.

## Skills

- Data Analysis** • Statistical Inferences, Clustering, Data Modelling, Features Extraction, NLP.
- Programming** • R, Python, SQL, html, CSS, javascript, Big Data & Cloud Computing.
- Data Vis.** • R shiny, Tableau Software, Power BI.
- Languages** • French native, English.

## Publications

- 50 [publications](#) as first or co-author 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).