Frederic COMMO, PhD
Data Scientist – Oncology & Bioinformatics

Project Leader, Precision Cancer Medicine & Molecular Screening Programs

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Work experience

2014 -Present **Data Scientist at Gustave Roussy, Villejuif, France**
Project Leader, Precision Cancer Medicine & Molecular Screening Programs

• Identifying molecular alterations matching with targeted therapies.
Deployment of data transfer/storage and analysis solutions for molecular screening programs at Gustave Roussy.

• Developing sharable visualization tools to assist therapeutic decision-making.
Interactive aCGH Viewer an end-user server solution for visualising and interacting with genomic profiles.
curveFitter, online application for curve fitting and drug response analysis (an extension of the nplr R package).

• Identifying new biomarkers and exceptional responders to treatments (ongoing research)
• **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.

1986-93 **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 **Engineering 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*, *CellViability*, *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).