



VÍCTOR A. Gil

Chief Technology Officer

SUMMARY

Scientist and Research Software Engineer with more than 8 years experience crafting scientific software in C++ and Python. Experienced developing High Performance Computing software. I have successfully led small software projects. Curious by nature, I like to discover and learn new electronics and computer science related technologies.



New work address UPC/UB?



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EDUCATION

2010-2016

Ph.D. Biomedicine

Universitat de Barcelona, Spain

2007-2009

M.Sc. Biomedical Engineering

Universitat Politècnica de Catalunya, Spain

2001-2006

B.Sc. Computer Engineering

Universitat Politècnica de Catalunya, Spain

EXPERTISE

C++

Python

Data Science

HPC

Innovation

Proteomics

INTERESTS

Technology • Programming • Biomedicine

EXPERIENCE

CO-FOUNDER & CTO - ZYMVOL

2017-

Implementing and supervising the software infrastructure. Contacting and managing new software providers. Selecting and leading programmers. Maintaining and open research lines related with computational tools.

RESEARCH SOFTWARE ENGINEER - BARCELONA SUPERCOMPUTING CENTER

2010-2016

Redesigned and translated the in-house software (PELE) from a legacy FORTRAN version to C++. This was part of the European Research Council project "PELE – a la carte drug design" (total budget 1.4M€). Improved the performance of the new implementation using modern HPC techniques (multi/manycore and distributed systems). Implemented and improving novel biophysical simulation algorithms. Implemented safer and efficient parallel machine learning methods in Python.

RESEARCH SOFTWARE ENGINEER – CENTER FOR GENOMIC REGULATION

2009-2010

Coded new modules for the Python package Biskit to handle fused domains, coiled coils, and calculating FRET- related metrics.

JUNIOR RESEARCH SOFTWARE ENGINEER - BARCELONA SUPERCOMPUTING CENTER

2006-2007

General research and implementation of sampling algorithms using normal modes, molecular dynamics and machine learning based approaches

POSTDOCTORAL RESEARCHER - UNIVERSITAT DELLA CALABRIA

2007-2008

Studied the interaction of platinum based anti-cancer drugs with water using quantum methods. Published 6 manuscripts.

SCIENTIST | PROGRAMMER | ENTREPRENEUR