SUMMARY

Computational chemist and physicist experienced with a broad range of molecular simulation techniques and their application to small molecules and proteins modeling and design.

EMANUELE MONZA
Chief Scientific Officer

New address
emonza@zymvol.com
https://goo.gl/Nhd0FE

EDUCATION

2012-2016
Ph.D. Computational Physics
Universitat Politècnica de Catalunya, Spain

2009-2011
M.Sc. Chemistry
University of Milan, Italy

2006-2009
B.Sc. Chemistry
University of Milan, Italy

EXPERTISE

- Molecular modeling
- Enzyme engineering
- Scientific computing
- Biotechnology
- Chemistry

INTERESTS

Basketball • Craft beer • Biotech

EXPERIENCE

CO-FOUNDER & CSO - ZYMVOL
2017-
Scientific direction. High-level decision making on consulting and research strategies. Providing solutions to customers. Hiring scientific personnel.

PREDOCTORAL FELLOW – BARCELONA SUPERCOMPUTING CENTER
2012-2016
Developed novel computer-aided enzyme engineering strategies. Designed three improved oxidoreductases and a hybrid inorganic-enzyme material for enhanced catalysis in collaboration with experimental groups. Highlighted details of the mechanism of cooperative binding in hemoglobin. Supervised guests and young students. Published several manuscripts in high-impact journals and one book chapter

VISITOR – UNIVERSITY OF COPENHAGEN
2014-2014
Learned fragment molecular orbital and HF-3c methods.

INTERNSHIP- UNIVERSITY OF MILAN
2010-2011
Developed quantum chemical descriptors of electron delocalization and aromaticity in organic molecules. Published one manuscript, one book chapter and one conference paper.

INTERNSHIP- UNIVERSITY OF MILAN
2009-2009
Simulated the influence of organic molecules on protein folding, revealing the diverse mechanism of action of denaturants and osmoprotectants

SCIENTIST | ENTREPRENEUR