Martí Municoy Terol

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Education

M.Sc. in Modelling for Science and Engineering

Barcelona, Spai

Universitat Autònoma de Barcelona

2017 - 2018

Specialization in Data Science

B.Sc. in Chemistry

Barcelona, Spain

Universitat Autònoma de Barcelona

2011 - 2017

B.Sc. in Physics

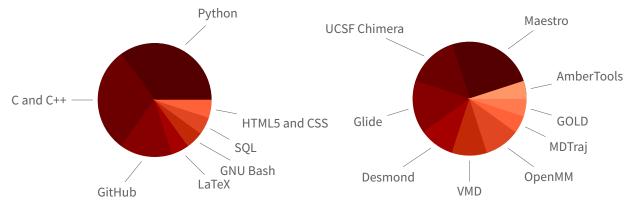
Barcelona, Spaii

Universitat Autònoma de Barcelona

2011 - 2017

Programming skills

______ Scientific software_



Positions_

Ph.D. position in PELE development

Barcelona, Spain

BARCELONA SUPERCOMPUTING CENTER, LIFE SCIENCES DEPARTMENT

Sep. 2018 - PRESENT

- Design of a new algorithm to sample the effects of interfacial water molecules in protein-ligand simulations.
- Research and development of new strategies and algorithms to estimate binding free energies through Monte Carlo simulations and the free energy perturbation technique.
- Application of computational methods in enzyme engineering studies.

Software developer intern at the Electronic and Atomic Protein Modeling Group

Barcelona, Spain

BARCELONA SUPERCOMPUTING CENTER, LIFE SCIENCES DEPARTMENT

Feb. 2018 - Aug. 2018

• Design of a new algorithm to sample the effects of interfacial water molecules in protein-ligand simulations.

Student collaborator at Insilichem

Barcelona, Spain

Universitat Autònoma de Barcelona, Chemistry department

Feb. 2016 - Feb. 2017

• Research on improving docking predictions for metal containing systems.

International mobility

Visit to the William L. Jorgensen Research Group

New Haven, United States of

America

YALE UNIVERSITY, DEPARTMENT OF CHEMISTRY

Dec. 2018

Research visitor at the University of Notre Dame

Notre Dame, United States of

America

CHEMISTRY AND BIOCHEMISTRY DEPARTMENT

Sep. 2016 - Dec. 2016

- Modelling and Development of a transition state force field and its applications to an artificial suzukiase.
- This research visit was planned with the support of the Programa Propi de Pràctiques mobility program of the Universitat Autònoma de Barcelona.

Participation to a science camp

Göttingen, Germany

XLAB - INTERNATIONAL SCIENCE CAMP

Aug. 2010

Publications

PELE-MSM: A Monte Carlo Based Protocol for the Estimation of Absolute Binding Free Energies

2019

J. Chem. Theory Comput. 15, 6243–6253 10.1021/acs.jctc.9b00753

NostrumBioDiscovery/msm_pele

Joan F. Gilabert, Christoph Grebner, Daniel Soler, Daniel Lecina, <u>Martí Municoy</u>, Oriol Gracia Carmona, Robert Soliva, Martin J. Packer, Samantha J. Hughes, Christian Tyrchan, Anders Hogner, Victor Guallar

Selective synthesis of 4-hydroxyisophorone and 4-ketoisophorone by fungal peroxygenases

2019

Catal. Sci. Technol. 9, 1398–1405 10.1039/c8cy02114g

Carmen Aranda, Martí Municoy, Víctor Guallar, Jan Kiebist, Katrin Scheibner, René Ullrich, José C. del Río, Martin Hofrichter, Angel T. Martínez, Ana Gutiérrez

GaudiMM: A modular multi-objective platform for molecular modeling

2017

J. Comput. Chem. 38 (24), 2118-2126 10.1002/jcc.24847

nsilichem/gaudi

Jaime Rodríguez-Guerra, Giuseppe Sciortino, Jordi Guasp, <u>Martí Municoy</u>, Jean-Didier Maréchal

Conference talks _____

5th BSC Severo Ochoa Doctoral Symposium

Barcelona, Spain

PRESENTER FOR SAMPLING INTERFACIAL WATER EFFECTS OVER PROTEIN SPECIFICITY WITH PELE

Apr. 2018

Honors & Awards

FI Ph.D. grant, Generalitat de Catalunya
Programa propi pràctiques, Universitat Autònoma de Barcelona
Barcelona, Spain
Barcelona, Spain

2009 **Joves i Ciència program**, Fundació Catalunya La Pedreda, 2nd promotion

Rarcelona Snai