LORIS GELIN

WITH A PH.D IN MOLECULAR MODELING AND STRONG KNOWLEDGE OF THE FIELD OF DATA SCIENCE AND MACHINE LEARNING ALGORITHMS.

Nationality : French
Born in 19/07/1995
Address : 8 rue Callisto, 25300 Doubs
Driving Licence : Category B
Phone : +33 6 48 27 39 56

COMPETENCY

Molecular Modeling software:

Linux, Python
Gaussian16 (DFT),
ChemCraft,
ChemDraw, COPASI
MestreNova, RDkit, Pack Office

Data Scientist / ML software :

PyTorch, Scikit-Learn, Numpy, Pandas, Spark, Matplotlib, Seaborn, Git, GitHub, SQL, Power BI, SAP ERP

LANGUAGES

English : Fluent
Spanish : Intermediate
French : Native

WORK EXPERIENCES

STUDENT EMPLOYEE (2013-2020)

Temporary assignments, Construction industry, Food delivery

DOCTORAT- MOLECULAR MODELING (2020-2023)

Burgundy Institute of molecular chemistry (ICMUB – UMR6302)
Pr P. FLEURAT-LESSARD et Dr J. ROGER.

Skill acquired :

- *Proficient in High Performance Computing (Python, Linux). Experimental and theoretical studies of functionalization by C–H activation of small molecules in organometallic catalysis using transition metals (Ir, Rh, Ru).*

- *Total autonomy in my research work (DFT calculations, organic and inorganic synthesis, characterisation).*

- *Project Management, Communication, Adaptabity.*

FORMATION - DATA SCIENTIST / MACHINE LEARNING ENGINEER

Skill acquired :

- **Spark/Python/SQL for Data Analysis :** *Manipulating and analyzing large databases across various datasets, including market trends, biological datasets, and chemical datasets featuring SMILES notation.*

- **Machine & Deep Learning :** *Implementing machine & deep learning algorithms, such as Graph Neural Networks (GNNs), in various fields.*

- **Data Visualization :** *Proficient in using visualization libraries to graphically represent data (Matplotlib, Seaborn, PowerBI).*

EDUCATION - CHEMISTRY

University of Burgundy

Master of molecular chemistry, T2MC : Transition Metals in Molecular Chemistry
M2 (2018-2019) : 13,9/20 – (Grading : 2nd/15)
M1 (2017-2018) : 13,6/20 – (Grading : 1st/11)

3rd bachelor degree of Science, Technology and Health degree in Chemistry
L3 (2016-2018) : 11,7/20

1st and 2nd bachelor degree of Life, Earth and Environmental Sciences Parcours Chemistry-Biochemistry
L2 (2015-2016) : 10,4/20
L1 (2014-2015) : 10,3/20

Mail : Loris.gelin.2@gmail.com
Kaggle : GELIN Loris
Linkedin : www.linkedin.com/in/gelin-loris-0824172a5
GitHub : https://github.com/LGBEUT/Data-Scientist-Portfolio

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Publications

- Palladium catalyzed C5-arylation of 1,3,4-oxadiazole derivated. L. Gelin, H. Sabadin, H. Cattey, J.-C. Hierso, P. Fleurat-Lessard, J. Roger.

- Oxidative Rhodium(III)-Catalyzed N-Directed C-H Arylation of s-Aryltetrazine with Aryl boronic Acids. O. Abidi, G. Divoux, L. Gelin, H. Cattey, P. Fleurat-Lessard, J.-C. Hierso, and J. Roger. (under preparation)

- Selective Deshydrogenative Cross-coupling Rhodium- or Iridium-Catalyzed (Hetero)Arylation of s-Aryltetrazines. O. Abidi, L. Gelin, G. Divoux, H. Cattey, J.-C. Hierso, P. Fleurat-Lessard and J. Roger. (under preparation)

- Experimental and theoritical study of Palladacycle of s-tetrazine and oxadiazole. L. Gelin, O. Aroule, I. Tolbatov, C. Testa, F. Akhssas, P. Ghesquierre, M. Ponce Vargas, H. Cattey, J.-C. Hierso, J. Roger, P. Fleurat-Lessard, under preparation (under preparation)

Communication

- C.O. Meeting of theoretical chemists from the Grand-Est region (RCTGE) - Dijon, 2-3 Juin, 2022

- C.A. GreenCat 2020 -Rennes, March 30-April 2 , 2020

Teaching and Supervison

- Supervision of two students on work experience. (15 days), Licence 3rd bachelor degree of chemistry, University of Burgundy.

- 20 hours, student's professional project, 2022, 1st bachelor degree level, University of Burgundy.

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