

Mai Dang-Le VUONG

Chemistry Doctoral Researcher

📍 Paris, France

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Interest: Make new materials for biomedical applications

Experience: Prepare and characterize nanoparticles for targeted drug delivery. Manage project with three collaborators.

RESEARCH EXPERIENCE

PhD thesis: Understanding drug delivery processes at the atomic scale in nanoMOFs by in situ NMR spectroscopy and relaxometry Nov 2019-now

Supervisor: Dr. Charlotte Martineau-Corcus (ILV-CNRS, University of Versailles), Dr. Ruxandra Gref (ISMO-CNRS, University Paris-Saclay), Dr. Anne-Laure Rollet (PHENIX-CNRS, University Sorbonne)

Master thesis: Degradation mechanism of metal-organic framework nanoparticles studied by solid-state NMR spectroscopy Feb-July 2019

Supervisor: Dr. Charlotte Martineau-Corcus (ILV-CNRS, University of Versailles), Dr. Ruxandra Gref (ISMO-CNRS, University Paris-Saclay)

Bachelor thesis: Electrodeposition and characterization of calcium phosphate coating on titanium substrate Apr-Jun 2017

Supervisor: Dr. Ghislaine Bertrand (CIRIMAT-CNRS, group PPB)

Group Student Project: Antimicrobial activity of aerogel fabricated from reduced graphene oxide-silver nanoparticle composite Oct 2016-Apr 2017

Supervisor: Dr. Phan Ngoc Hong (Laboratory of Carbon Nanomaterials, Institute of Materials Science, Vietnam Academy of Science and Technology)

EDUCATION

International Master in Surface, Electro, Radiation and Photo-Chemistry (SERP+) 2017-2019

• *University of Genoa (Italy): Nanostructuring and energy harvesting at surfaces* Sept 2018-Jan 2019
Rank 2/8 – 28.5/30

• *University of Porto (Portugal): Physical chemistry of interfacial, condensed and energetic systems* Feb-Jun 2018
Rank 1/7 - 17.8/20

• *University of Paris-Sud (France): Fundamentals and methods for SERP* Sept 2017-Feb 2018
Rank 1/28 - 16.9/20

Bachelor in Advanced Materials Science and Nanotechnology 2014-2017

University of Science and Technology of Hanoi-USTH (Vietnam)

Rank 1/7 - 17.5/20. Graduation type: Very Good

SKILLS

Laboratory skills

- Synthesis techniques: microwave-assisted radiation, single emulsion, nanoprecipitation
- Analytical techniques: chemical titration, colorimetric titration (UV-vis spectroscopy), liquid chromatography (HPLC)
- Characterization techniques: microscopy (TEM, SEM), scattering (DLS, zeta potential), spectroscopy (solid-state and liquid NMR spectroscopy, ATR-FTIR, UV-vis), BET, TGA
- Electrochemical techniques: cyclic voltammetry, chronoamperometry

Language English (IELTS 7.5), French (DELF A2), Vietnamese (native)

Software Microsoft Office (Word, PowerPoint, Excel), OriginLab: basic data fitting, Matlab: basic use

Others Integration and adaption: gained during my International Master program

Independent thinker. Team player: I have worked in collaboration with 3 institutions

ADDITIONAL INFORMATION

- Conference** Mai Dang Le Vuong, Ioanna Christodoulou, Ruxandra Gref, Charlotte Martineau-Corcos.
- Poster** Investigating degradation mechanism of nanoMOFs by solid-state NMR spectroscopy. EuroMOF (2019), *The 3rd International Conference on Metal Organic Frameworks and Porous Polymers*
Minh Tuan Duong, Van Hung Nguyen, Dang Le Mai Vuong, Huong Giang Hoang, Ngoc Hong Phan. Antimicrobial activity of aerogel fabricated from reduced graphene oxide-silver nanoparticles composite. ASAM (2017), *The 6th Asian Symposium on Advanced Materials: Chemistry, Physics & Biomedicine of Functional and Novel Materials*
- Course**
- Summer School on Science Management for Scientists and Engineers, University of Genoa, Italy (July 2018): course on Intellectual Property, Project management, Technology Transfer, Professional Project.
 - Vietnam Summer School of Science, International Center for Interdisciplinary Science and Education (Jul 2018): 3rd prize group in Science Hackathon
- Extracurricular activities**
- Fête de la Science, University Sorbonne (2019): present scientific research about porous solids to the public
 - Volunteer in Math Open Day, Vietnam Institute for Advanced Study in Mathematics (Aug 2016): organize games and quizzes related to mathematics for children
 - Tutor in General Chemistry and Physical Chemistry for Survival Club, USTH (2015-2016)
 - Teaching assistant in Cellular Biology course for 1st year student (2015-2016)

HONORS AND AWARDS

- Erasmus Mundus European scholarship for Joint Master Degree (2017-2019)
- Odon Vallet scholarship for Excellent students (2015-2016)
- Undergraduate scholarship for Excellent students: 100% tuition fee (2014-2016)

REFERENCES

Dr. Charlotte Martineau-Corcos, Assistant Professor
Université Paris-Saclay, UVSQ, CNRS, Institut Lavoisier
de Versailles, 78000, Versailles, France
charlotte.martineau@uvsq.fr

Dr. Ruxandra Gref, Research Director
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