

CURRICULUM VITAE

Dr. Martin Tiano

41 years old

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Current Positions

Since jan. 2022 *Associate Researcher*
Laboratory of Catalysis, Polymerisation, Process and Materials (CP2M, UMR 5128),
Université Claude Bernard Lyon 1, CPE-Lyon, CNRS (France).

Since sept. 2021 *Teacher in public secondary and high schools*
Collège La Tourette; Lycée La Martinière (Lyon)

Professional experience

2018-2021 *Assistant Professor*
Laboratoire de Chimie (UMR 5182); Département de chimie, ENS Lyon.

2012-2021 *Freelance Journalist*
Main contributions : "Pour La Science" magazine (French version of *American Scientific*), "La Recherche" magazine

2008-2018 *Teacher in public secondary school*
Lycée Rosa Parks (Neuville-Sur-Saône), Lycée Colbert (Lyon), Lycée La Martinière (Lyon)

2005-2008 *PhD Student*
Institut de Chimie et de Biochimie Moléculaire et Macromoléculaire (ICBMS, UMR 5182) Université Claude Bernard Lyon 1, CNRS (France)

Academic Training

2005-2008 *PhD in Organic Chemistry*
Laboratoire de Synthèse et Méthodologie Organiques, ICBMS, UMR 5181, Université Claude Bernard Lyon I.
Supervisor Pr. Philippe Belmont

2005 *Agrégation (national competitive examination in Chemistry)*

2001-2004 *Master of Science (Chemistry)*
Ecole Normale Supérieure de Lyon and Université Claude Bernard Lyon I.

Administrative responsibilities and reviewing activities

2018-2021 Co-manager of the preparatory class for the *Agrégation*
Member of the jury for the entrance exam to the Ecole Normale Supérieure de Lyon

2021 Reviewer for the *French-Ukrainian Chemistry Journal*

Teaching

sept. 2021 *Full-time science teacher in secondary school ("Professeur agrégé", permanent position)*
Collège La Tourette (Lyon, France)
Lycée La Martinière (Lyon, France)

2018-2021 *Assistant professor ("Agrége Préparateur", 3-years position)*
Département of Chemistry, ENS Lyon.

Chemistry lectures for first year students (2h/week)

Chemistry lectures, Practical works, Mock oral tests and exams for the preparation of the Agrégation examination (graduate level) (100h/year)

Practical works for upper division students in organic, inorganic and analytical chemistry (100h/year)

Conception of new laboratory experiments for upper division practical works

2008-2018 *Full-time science teacher in secondary school ("Professeur agrégé", permanent position)*

Sept. 2005-Sept. 2008 *PhD Student ("Allocataire Moniteur Normalien")*
Université Claude Bernard Lyon 1.

Tutorials in general and organic chemistry for first and second year students.

Practical works for the preparation of the CAPES examination (undergraduate level)

Publications

7. *Predicting the modulation of UV-vis. absorption and emission of mono-substituted pyrido[2,3,4-kl]acridines by electronic density variations analysis.* M. Tiano*, C. Courdurie and P. Colinet *Comput. Theor. Chem.* **2022**, 1213, 113733. DOI :10.1016/j.comptc.2022.113733

6. *Water depollution control : A gateway to reaction monitoring and analytical chemistry.* M. Tiano*, M. Roose *J. Chem. Educ.* **2022**, 99(2), 941–945. DOI :10.1021/acs.jchemed.1c00572

5. *New High-Performance Porous Ionic Liquids for Low Pressure CO₂ Capture* J. Avila, L.F. Lepre, C. Santini, M. Tiano, S. Denis-Quanquin, K.C. Szeto, A. Padua, M. Costa Gomes*. *Angew. Chem. Int. Ed.* **2021**, 60,12876–12882. DOI :10.1002/anie.202100090

4. *Enantioselective Michael Addition : An Experimental Introduction to Asymmetric Synthesis*. M. Tiano*, *J. Chem. Educ.* **2020**, 97, 8, 2291–2295. DOI :10.1021/acs.jchemed.0c00164
3. *Unusual reactivities of acridine derivatives in catalytic hydrogenation. A combined experimental and theoretical study*. P. Mignon, M. Tiano, P. Belmont, A. Favre-Reguillon, H. Chermette, F. Fache*, *J. Mol. Cat. A : Chem.* **2013**, 371, 63-69. DOI :10.1016/j.molcata.2013.01.015
2. *Rapid Access to Amino-Substituted Quinoline, (Di)Benzofuran, and Carbazole Heterocycles through an Aminobenzannulation Reaction*. M. Tiano, P. Belmont*. *J. Org. Chem.* **2008**, 73 (11), 4101-4109. DOI :10.1021/jo800249f
1. *Acridine and Acridone Derivatives, Anticancer Properties and Synthetic Methods : Where Are We Now?* P. Belmont*, J. Bosson, T. Godet, M. Tiano. *Anti-Cancer Agents Med. Chem.* **2007**, 7 (2), 139-169. DOI :10.2174/187152007780058669

Oral communications and posters

January 26th, 2022 : Innovation and Research in Chemical Education Days, Toulouse, France

Oral communication : *Re-penser l'enseignement de la chimie expérimentale dans le supérieur : mise en place et utilisation de livrets de compétences*

June, 5th 2008 : French Chemical Society – RA section meeting - 2008, Grenoble, France

Poster : *Aminobenzannélation : voie d'accès à des hétérocycles disubstitués originaux*

October 15-17th 2007 : Sigma-Aldrich Young Chemist Symposium SAJEC 2007, La Brosse Montceaux, France

Oral Communication : *Aminobenzannélation : voie d'accès à des hétérocycles disubstitués originaux*

17-19 September 17-19th 2007 : Organic Chemistry Days of the French Chemical Society JCO 2007, Ecole Polytechnique, Massy-Palaiseau, Montceaux, France

Poster : *Synthèse de carbazoles, dibenzofuranes et de quinoléines polysubstitués par aminobenzannélation*

April 26th 2007 : Cluster Chemistry - Région Rhône-Alpes, Villeurbanne, France

Poster : *Aminobenzannélation : voie d'accès à des hétérocycles disubstitués originaux*

Supervision (Undergraduate students)

Ines Couvidat and Emilie Miroir, 2022 (1 month) *M1 intern., CPE Lyon*

Nicolas Scaglione, 2021 (6 months) *M2 intern., ENS de Lyon*

Ashley Falana and Juliette Sarciron, 2021 (1 month) *M1 intern., CPE Lyon*

Chloé Courdurie, 2020 (3 months) *M1 intern. ENS de Lyon* (1 article published)

Laetitia Bourgeois, 2020 (6 months) *M2 intern. Université Lyon 1* (1 article submitted)

Laetitia Bourgeois and Emma Robert, 2018 (1 month) *M1 intern., CPE Lyon*

Dissemination and Expert activities

Freelance Journalist

+100 articles about chemistry research in *Pour La Science, La Recherche, Le Figaro*

Scientific Festival Organizer

2017 and 2018 : Conception and organization of the "Science area" of the *Geek Touch Event* (1000 m², 40000 visitors)

Since 2016 : Creation and organisation of the annual *Lyon Science Festival* (6 editions, 300 spectators/edition)

Young research formation

June 7-8th 2017 : conception and animation of workshop about popular science at "*Les Oncoriales*", Canceropole of Lyon)

Expert activities

2018 : Participation of the jury of the film Festival *Interferences* (Award "The image for talking about sciences")

2015 : Science consulting for *l'Institut De Jeager* (Paris, France)

Skills

Experimental chemistry

Ionic liquids synthesis

Multistep organic synthesis

Heterocyclic chemistry

Inorganic synthesis

NMR experiments (1D, 2D, DOESY; Nucleus ¹H, ¹³C, ¹⁹F, ³¹P, etc.)

DLS, GC-MS, IR, UV-Vis and Fluorescence spectroscopies

Computational chemistry

DFT and TD-DFT calculations with Gaussian 16 package (Spectroscopic, thermodynamic, kinetic studies)

Educational Engineering

Conception of practical works for undergraduate level

Conception of selective exams

Conception of lectures in chemistry

Science Dissemination

Conception and Organisation of popular science workshops and events

Realisation of popular science talks and articles

Others

Use of Linux OS, various softwares for chemistry, spectroscopy, edition,...

Driving licence since 2002

Cello playing