

CV – Dr. Giulio RAGAZZON**Born** 21 August 1989, Treviso, Italy**Nationality** Italian**Email** ragazzon@unistra.fr**Group website** <https://ragazzonlab.isis.unistra.fr>**Google Scholar** <shorturl.at/btDR1>**Address** Institut de Science et d'Ingénierie Supramoléculaires (ISIS), University of Strasbourg & CNRS, 8 allée Gaspard Monge, 67000 Strasbourg (FR)**Academic Career**

- 2021- Group leader of the "Laboratory of driven chemical processes" and Assistant Professor of Chemistry (Maître de Conférences Associé), Institut de Science et d'Ingénierie Supramoléculaires (ISIS), University of Strasbourg, FR
Topic: energy-demanding chemical processes
- 2018-21 Assistant professor of Chemistry (RTDa), University of Trieste, IT
Topic: functional carbon nanodots. Mentor: Prof. Prato
- 2017-18 Postdoctoral researcher, University of Padova, IT
Topic: non-equilibrium self-assembly. Supervisor: Prof. Prins

Education

- 2014-17 PhD in Chemistry, University of Bologna, IT
Topic: molecular devices and machines. Supervisor: Prof. A. Credi
- 2011-13 Master degree in Photochemistry and Molecular Materials, University of Bologna, IT. 110/110 cum Laude
- 2008-11 Bachelor degree in Chemistry, University of Trieste, IT. 110/110 cum Laude
- 2003-08 High school diploma, Liceo Scientifico "J. da Ponte", IT. 100/100

Research stays

- 2015-16 Prof. Aida group, The University of Tokyo/Riken Center, JP
- 2013 Dr. McClenaghan group, Institute des Sciences Moléculaires UMR 5255 CNRS/Université Bordeaux I, FR
- 2011 Prof. Sadler group, Warwick University, UK

Publications

I am author of >30 peer-reviewed articles and book chapters, also in renowned journals like Nature Nanotechnology (2), Angewandte Chemie (8), Chem (2), and PNAS (1). The publications that I co-authored received collectively more than 1300 citations, H-index: 17. The most important contributions deal with the non-equilibrium self-assembly of molecular systems. For the full publication list see Google Scholar: <shorturl.at/btDR1>.

10 most significant publications (reverse chronological order, *=corresponding author, +=equal contribution)

- "Autonomous non-equilibrium self-assembly and molecular movements powered by electrical energy", G. Ragazzon,* M. Malferrari, A. Arduini, A. Secchi, S. Rapino,* S. Silvi,* A. Credi *ChemRxiv*, **2022**, 10.26434/chemrxiv-2021-l6399-v2.
- "Transfer of axial chirality to the nanoscale endows carbon nanodots with circularly polarized luminescence", S. Di Noja, F. Amato, F. Zinna, L. Di Bari,* G. Ragazzon,* M. Prato* *Angew. Chem. Int. Ed.*, **2022**, accepted.
- "Optical processes in carbon nanocolloids", G. Ragazzon,* A. Cadranet, E. V. Ushakova, Y. Wang, D. M. Guldi,* A. L. Rogach,* N. A. Kotov,* M. Prato* *Chem*, **2021**, 7, 606 - 628.
- "Mapping the surface groups of amine-rich carbon dots enables covalent catalysis in aqueous media", G. Filippini,* F. Amato, C. Rosso, G. Ragazzon,* A. Vega-Peñaloza, X. Companyó,* L. Dell'Amico, M. Bonchio, M. Prato* *Chem*, **2020**, 6, 3022 - 3037.
- "Fuel-responsive allosteric DNA-based aptamers for the transient release of ATP and cocaine", E. Del Grosso, G. Ragazzon, L. J. Prins, F. Ricci *Angew. Chem. Int. Ed.*, **2019**, 58, 5582 - 5586.
- "Energy consumption in chemical-fuel driven self-assembly", G. Ragazzon, L. J. Prins., *Nat. Nanotechnol.*, **2018**, 13, 882 - 889.

7. "Substrate-induced self-assembly of cooperative catalysts", P. Soliis Muñana,⁺ G. Ragazzon,⁺ J. Dupont, C. Z.-J. Ren, L. J. Prins, J. L.-Y. Chen, *Angew. Chem. Int. Ed.*, **2018**, 57, 16469 - 16474.
8. "Remote electrochemical modulation of pKa in a rotaxane by co-conformational allostery", G. Ragazzon, C. Schäfer, P. Franchi, S. Silvi, B. Colasson, M. Lucarini, A. Credi, *Proc. Nat. Acad. Sci. U.S.A.*, **2018**, 115, 9385 - 9390.
9. "Dissipative synthetic DNA-based receptors for the transient load and release of molecular cargo", E. Del Grosso, A. Amodio, G. Ragazzon, L. J. Prins, F. Ricci, *Angew. Chem. Int. Ed.*, **2018**, 57, 10489 - 10493.
10. "Light-powered autonomous and directional molecular motion of a dissipative self-assembling system", G. Ragazzon, M. Baroncini, S. Silvi, A. Credi, *Nat. Nanotechnol.*, **2015**, 10, 70 - 75.

Awards & Scholarships

International

- 2022 ERC Starting grant
Awarded for project KI-NET, aimed at developing chemical networks that can absorb and transfer energy as Nature does.
- 2022 Fellow of the Foresight Institute - class of 2022
Foresight Institute is a non-profit organization focused on advancing technologies of fundamental importance for the future of life.
- 2021 Dream Chemistry Award - top 5
The Dream Chemistry Award is a worldwide competition rewarding young chemists who dream of solving fundamental problems with bold ideas.
- 2016 European Young Chemist Award - PhD Level, gold medal
The European Young Chemist Award is the most important European recognition in chemistry at the PhD level.

National

- 2019 Junior prize "Organic chemistry for the environment, energy and nanoscience" – Italian Chemical Society
- 2017 Best PhD thesis in photochemistry - Italian Group of Photochemistry
- 2017 Best PhD thesis in inorganic chemistry - Italian Chemical Society
- 2017 Levi prize 2016 – mention
Levi Prize recognizes an outstanding contribution from a young member of the Italian Chemical Society.
- 2015 NEST prize 2014 for research in nanoscience
NEST prize is awarded to the first author of the best Italian paper of the year in experimental nanoscience.

Scholarships

- 2011-14 Collegio Superiore Student, University of Bologna, IT
Collegio Superiore is the Excellence Institution of Bologna University: only about one student every thousand belongs to this Institution (for more information, please visit www.collegio.unibo.it).
- 2008-11 "Collegio Universitario per le Scienze Luciano Fonda" Student, University of Trieste, IT
A merit-based scholarship (for more information, please visit www.collegiofonda.it)

Invited talks & workshops

- 2022 Mach-5, 11-14 September, Plön, DE
- 2022 EuChemS, 29 August, 1 September, Lisbon, PT
- 2022 IUMRS-ICYRAM2022, 3-6 August Fukuoka (hybrid), JP
- 2022 Foresight Institute "Designing Molecular Machines" workshop, 9-10 July, San Francisco, USA
- 2022 StraSoft22, 2 – 3 June, Strasbourg, FR
- 2022 1st International Supramol. Chemistry Summer School, 29 May – 2 June, Santa Margherita di Pula, IT
- 2022 Topical School in Photochemistry, Light-driven molecular machines, 23 – 25 May, Strasbourg, FR
- 2022 Topical School in Photochemistry, Photochromic compounds, 23 – 25 May, Strasbourg, FR
- 2022 Physics of Life Summer School, 25 - 29 April, Edinburgh, UK
- 2021 Dream Chemistry Award, 6 - 7 December, Prague, CZ
- 2021 Systems Chemistry Virtual Symposium 2021, 7 - 9 July, online
- 2019 National Congress of the Organic Chemistry Division of the Italian Chemical Society, 8 - 12

- September, Torino, IT
 2019 "Self-assembly away from equilibrium", Modena Award, 3 May, Padova, IT
 2018 National Congress of Inorganic Chemistry, 10 - 13 September, Bologna, IT
 2017 Italian Photochemistry Meeting, 14 - 16 December, Perugia, IT
 2017 CV clinic Day, 10 April, Bologna, IT
 2016 EuCheMS Chemistry Congress, 14 September, Sevilla, ES
 2015 NanotechItaly, November 25 – 28, Bologna, IT

Besides invited talks, I participated to 16 conferences, presenting 9 contributed talks and 6 posters (*3 poster prizes awarded*, on 3 different topics).

Talks given at Institutes

- 2022 University of Edinburgh, Edinburgh, UK, 28 April
 2021 Institut Le Bel, Strasbourg, FR, 22 October
 2020 Institut de Science et d'Ingénierie Supramoléculaires, Strasbourg, FR 12 October
 2019 University of Luxembourg, Luxembourg, LU, 23 September
 2019 Institut de Science et d'Ingénierie Supramoléculaires, Strasbourg, FR, 20 September
 2017 University of Trieste, Trieste, IT, 18 December
 2016 Université de Lorraine - CNRS, Nancy, FR, 3 November
 2016 ISOF-CNR, Bologna, IT, 16 June

Research support >2M € 2020-to date. Including: ERC Starting grant 2021 "*Energy transduction in kinetically asymmetric catalytic networks*" • FRC ITI Chemistry of Complex Systems • NWO-VENI grant, declined. ISIS-Unistra installation grant, Grand Est Region PhD scholarship cofund • IDEX exploratory research.

Supervision of students

Postdoc: Simone Di Noja, 2022-, University of Strasbourg

PhD students: Ahmad Bachir, 2022- • Thitiporn Sangchai, 2022- • Fabiana Ciocchetti, 2021- • Simone Di Noja, 2018-2022, University of Trieste

Master students: at the University of Strasbourg Georgette Obeid 2022, Daniel Couto, 2022 • Victor Sabanza Gil, 2022 • Ahmad Bachir, 2022 • Shana Shirin Valapra, 2022; at the University of Trieste: Andrea Bogo, 2021 • Michele Cesco, 2021 • Simone Zuccolo, 2020.

In addition: informal supervision of 2 Postdocs, 2 PhD students, 2 Master students

Teaching activities

Appointed teacher

Organic Chemistry II - Laboratory course. Undergraduate degree in Science and Technology for Environment and Nature (2nd year undergraduate students). University of Trieste AY 18/19, 19/20, and 20/21, 36 hours, ca. 40 students • Systems Chemistry. Complex Systems Chemistry Graduate School (master students). University of Strasbourg AY 21/22, 22/23 2 hours, 10 students • Electrochemistry, Master in physical chemistry, University of Strasbourg AY 22/23, 6h, ca. 30 students.

Tutor

Spectroscopy - exercises. Undergraduate degree in Chemistry (2nd and 3rd year undergraduate students).

University of Strasbourg AY 2021/2022, 16 hours, ca. 120 students • Organic Chemistry I - exercises.

Undergraduate degree in Chemistry (1st year undergraduate students). University of Trieste AY 2018/2019 and 2019/2020, 12 hours, ca. 30 students. • Laboratory assistant for the 3rd organic chemistry lab.

Undergraduate degree in Chemistry (3rd year undergraduate students). Padova University, AY 2016/2017 and 2017/2018, for a total of 83 hours. • Laboratory assistant for the general chemistry lab. Undergraduate

degree in Chemistry (1st year undergraduate students). Bologna University, AY 2014/2015 and 2015/2016, for a total of 93 hours. • Laboratory assistant for the ecology and chemistry course (chemistry teaching).

Undergraduate education science course (4th and 5th year undergraduate students). Bologna University, AY 2014/2015, 16 hours.

Institutional responsibilities

2022- Co-organizer of Royal Society of Chemistry virtual Macrocyclic and Supramolecular Chemistry Seminar Series

2022- Co-organizer of Systems Chemistry Virtual Symposium (international conference)

- 2022- Co-organizer of ISIS seminars
- 2021- Committee member – evaluation of Master internships, University of Strasbourg
- 2021- Poster judge at the Systems Chemistry Virtual Symposium 2021
- 2021- Member of the Board of Directors – ISIS/University of Strasbourg
- 2021- Member of Institute Council – ISIS/University of Strasbourg
- 2021-30 Habilitations to Associate Professor conferred by the Italian Ministry of University and Research:
 - 03/C1 Organic chemistry 01/06/2021 - 01/06/2030
 - 03/B1 Fundamentals of chemical sciences and inorganic systems 19/04/2021 - 19/04/2030
- 2020-21 Committee member – research scholarship public calls, University of Trieste
- 2019 Committee member – evaluation of Italian language for foreigners, University of Trieste
- 2019 Committee member – final exam of the Master degree in Chemistry, University of Trieste
- 2018-21 Member of the departmental council – Department of Chemical and Pharmaceutical Sciences of the University of Trieste (IT)
- 2018-21 Member of the bachelor degree council – Bachelor in Science and Technology for the Environment and Nature, University of Trieste (IT)
- 2019-21 Referent for the acquisition and maintenance of a Departmental Dynamic Light Scattering instrument, 2019 - 2021 University of Trieste

Reviewing activity I served as a reviewer for several journals, including: Angewandte Chemie, Nature, Nature Communications, Nature Nanotechnology, Nature Reviews Chemistry, JACS.

Memberships French Chemical Society (2022→) • Royal Society of Chemistry (AMRSC, 2017→) • Italian Chemical Society (2014→).