

# Curriculum Vitae VALERIO FASANO

Group Website: [www.fasanolab.com](http://www.fasanolab.com)

## • RESEARCH EXPERIENCE

**Current position** (since Jan 2026): Associate Professor, University of Milan, Italy.

Research interests: functionalization of heterocycles, active pharmaceutical ingredients, natural products.

Since Feb 2022: National Scientific Habilitation to Associate Professorship in Organic Chemistry (ASN 2021-23, Bando D.D. 553/2021 Settore Concorsuale 03/C1 Chimica Organica, II Fascia)

## Previous Research Experiences:

- Tenure Track Assistant Professor RTD-B (2023-2025), University of Milan, Italy.

- Visiting Professor (March-April 2022), University of Milan, Italy.

Design and delivery of a course for PhD students in Chemistry entitled “Recent Strategies in Organoboron Chemistry”.

- EPSRC Doctoral Prize Fellow (2019-2021), University of Bristol, UK.

Project funded: ‘Automating homologations of boronic esters’. Supervisor: Prof. V. Aggarwal, FRS.

In October 2021 promoted to PhD Course Manager (administration, teaching, interviews, budget management).

- RSC Visiting Researcher (Sep-Dec 2017), University of Toronto, Canada.

Project funded: ‘CF<sub>3</sub>-Substituted Electrophilic Phosphonium Cations’. Supervisor: Prof. D. W. Stephan, FRS.

- Research Associate (Mar-Jul 2015), University of Manchester, UK.

Project funded: ‘The Reactivity of Boron Electrophiles’. Supervisor: Prof. M. Ingleson.

- EU Visiting Researcher (Feb-Jul 2014), University of Lund, Sweden.

Project funded: ‘Photoredox-Catalyzed Michael Additions’. Supervisor: Prof. P. Somfai.

## • EDUCATION

- Ph.D. in Chemistry (21 Sep 2015 – 24 Oct 2018), entitled ‘Water/Base Tolerance in Frustrated Lewis Pair Chemistry with Boron, Carbon and Phosphorus Lewis Acids’. Supervisor: Prof. M. Ingleson, University of Manchester, UK.

- MSc Degree in Chemistry (16 Oct 2014), entitled ‘Photoredox-Catalyzed Michael Additions’. Supervisor: Prof. M. Bandini, University of Bologna, Italy. Degree: 110/110 cum laude.

- Diploma in Chemistry at Institute for Advanced Studies (2013, University of Catania, Italy), entitled ‘Incorporation of Drugs in Silica-Gel Nanoparticles’. Supervisor: Prof. L. Prodi, University of Bologna, Italy. Degree: 70/70 cum laude.

- BSc Degree in Chemistry (27 Jul 2012), entitled ‘Asymmetric Reduction of a Racemic Ferrocenyl Ketone’. Supervisor: Prof. D. Sciotto, University of Catania, Italy. Degree: 110/110 cum laude.

## • TEACHING EXPERIENCE

Since 2026: *Organic Chemistry B* (LM Scienze Chimiche) - University of Milan.

Since 2026: *Organic Chemistry Laboratory* (LT Chimica) - University of Milan.

Since 2023: *Concepts and Methods in Organic Synthesis* (LM Industrial Chemistry) - University of Milan.

2025: *Milestones in Chemistry: Nobel Prize-winning discoveries and their scientific impact* (PhD) – Univ. of Milan.

2025: *Emerging Approaches to Natural Product Synthesis and Derivatization* (PhD) - University of Milan.

2024: *Novel Approaches for the Structural Design of Bioactive Molecules* (PhD) - University of Milan.

2023: *New Methodologies for Synthesis and Modification of Natural Products* (PhD) - University of Milan.

2023: *Organic Chemistry Laboratory* (LM Industrial Chemistry) - University of Milan.

2022: *Recent Strategies in Organoboron Chemistry* (PhD) - University of Milan.

2021: *Organic Chemistry* (tutorial/marketing for 2<sup>nd</sup>-year undergraduates) - University of Bristol.

2019 – 2021: *Technology/Automation in Organic Chemistry* (training for 1<sup>st</sup>-year PhD students) - Univ. of Bristol.

2016 – 2018: *Organic Chemistry* (Lab Demonstrator) - University of Manchester.

## • SELECTED PUBLICATIONS (full list available [here](#))

10. A. Dimasi, A. Montoli, G. Macetti, L. Lo Presti, D. Passarella, V. Fasano\*  
Photochemical C4-selective C–H amination of quinolines via N-shift of heteroaryl azides  
*Org. Lett.* 2026, 28, 5746

9. A. Dimasi, A. Montoli, M. Buonaguro, L. Maiorana, G. Macetti, E. Eleonora, L. Muzio, G. Donati, D. Passarella, P. Pierfausto\*, V. Fasano\*  
N-Amidinyl-Benzodiazaborines as Novel Boron-Based Scaffolds: Synthesis and Application in Retromer Stabilization  
*Adv. Syn. Catal.* 2026, 368, e70551

8. A. Dimasi, A. Montoli, C. Lutti, A. Citarella, P. Ronchi, F. Castagnini, V. Mileo, G. Macetti, V. Baldelli, E. Rossi, P. Landini, D. Passarella, V. Fasano\*  
Stereodefined Synthesis of 3-Difluoromethyl-Benzoxaboroles: Novel Antimicrobials with Unlocked H-Bonding  
*Org. Lett.* 2026, 28, 1527

7. A. Montoli, A. Dimasi, A. Citarella, P. Ronchi, D. Passarella, V. Fasano\*

Metal-free, Selective Ortho-Deuteration of N-heterocyclic Oxides

*Adv. Synth. Catal.* 2025, e202401585

6. F. Migliano, L. Pozzi, A. Citarella, G. Macetti, L. Lo Presti, D. Passarella\*, V. Fasano\*

Rotational Motion in Bispidines: A Conformational Study

*Org. Lett.* 2025, 27, 9669

5. A. Dimasi, M. Failla, A. Montoli, A. Citarella, P. Ronchi, D. Passarella, V. Fasano\*

First total synthesis of caerulomycin K: a case study on selective, multiple C–H functionalizations of pyridines.

*RSC Advances* 2024, 14, 55425

4. V. Fasano, R. C. Mykura, J. M. Fordham, J. J. Rogers, B. Banecki, A. Noble, V. K. Aggarwal\*

Automated Stereocontrolled Assembly-Line Synthesis of Organic Molecules.

*Nature Synthesis* 2022, 1, 902

3. V. Fasano, A. W. McFord, C. P. Butts, B. S. L. Collins, N. Fey, R. W. Alder, V. K. Aggarwal\*

How big is the pinacol boronic ester as substituent?

*Angew. Chem. Int. Ed.* 2020, 59, 22403

2. V. Fasano, N. Winter, A. Noble, V. K. Aggarwal\*

Divergent, stereospecific mono- and difluoromethylation of boronic esters.

*Angew. Chem. Int. Ed.* 2020, 59, 8502

1. V. Fasano, J. Cid, R. J. Procter, M. J. Ingleson\*

Selective boryl-anion migration in a vinyl  $sp^2$ - $sp^3$  diborane induced by soft borane Lewis acids.

*Angew. Chem. Int. Ed.* 2018, 57, 13293

#### • FUNDING AWARDED

- 1 PhD scholarship within my research group co-sponsored by Chiesi Farmaceutici (€ 40,500).

- EPSRC Doctoral Prize Fellowship to carry out my postdoc at the Univ. of Bristol (UK).

- RSC Mobility Grant to carry out my research experience at the University of Toronto (Canada).

- Erasmus Grant to carry out my research experience at the University of Lund (Sweden).

#### • SUPERVISION OF GRADUATE STUDENTS; PhD POSTDOC STUDENTS

- Since 2023 10 overall – 2 PhD students, 8 MSc/BSc students, University of Milan, Italy

#### • INSTITUTIONAL RESPONSIBILITIES

Since 2023 - Scientific Board and Organising Committee of [International School of Process Chemistry](#)

2024-2025 - Scientific Board of [International Summer School of Natural Products](#)

2023-2025 - Member Council (Giunta) of Department of Chemistry (Univ. of Milan)

#### • REVIEWING AND EDITORIAL ACTIVITIES

2026: Book Chapter "Emerging green and sustainable strategies for isotope labeling" of the book "Isotopically-Labeled Compounds", in *Recent Advances and Emerging Topics in Synthesis and Applications*, 2026, 277-388, Elsevier

2024: Book chapters of the Italian Edition of “*Solutions Manual to accompany Organic Chemistry*” (by J. Clayden, S. G. Warren, Editor: OUP Oxford): invited translation by Piccin Nuova Libreria Editor.

2023 Guest Editor for *European Journal of Organic Chemistry* (Wiley). [Link to the editor](#)

2023 Guest Editor for *Frontiers in Natural Product* (Frontiers). [Link to the editor](#)

Reviewer for *ACS Catal.* (ACS), *Chem. Commun.* (RSC), *EurJOC* (Wiley). [Link to the reviewer](#)

#### • AWARDS

2022 *Young Researcher Award – methodologies in organic chemistry* – Società Chimica Italiana (Italy)

2021 *Best Oral Communication at XLV "A. Corbella" Summer School* – University of Milan (Italy)

2021 *Conference Grant to present at “XXVII Congresso Nazionale”* – Società Chimica Italiana (Italy)

2020 *Benzocaine Innovation power* - Evonik (Germany)

2019 *STEM for Britain - Chemistry* - House of Parliament in London (UK)

2018 *Syngenta Scholarship in Organic Chemistry* - Bracknell (UK)

2018 *Doctoral Researcher Award ABTA* - University College London (UK)

2012 *Award Prize – top-three 2<sup>nd</sup>-year chemistry student* at the University of Catania (Italy)

2012 *Cambridge Chemistry Challenge online competition* - Cambridge (UK)

#### • PRESENTATION AT CONFERENCES

2025: Talk at "Japanese-Italian Symposium on Organic Chemistry", University of Bari.

2025: Talk at “XLII Convegno Nazionale della Divisione di Chimica Organica”, University of Cagliari.

2024: Talk at China-Italy Bilateral Symposium of Organic Chemistry, HangZhou (China)  
2022. Talk at “XL Convegno Nazionale della Divisione di Chimica Organica”, University of Palermo.  
2021. Talk and Poster at “XXVII Congresso Nazionale”, Società Chimica Italiana.  
2021. Talk at “Athens Summer School on Organic Synthesis 2021”, University of Athens.  
2021. Talk at “Dalton 2021”, University of Warwick.  
2021. Talk at “XLV A. Corbella International Summer School”, University of Milan.  
2019. Poster at “STEM for Britain”, British Parliament, Westminster, London.  
2018. Invited talk at “Doctoral Researcher Award ABTA”, University College London.  
2018. Poster at “Dalton 2018”, University of Warwick.  
2017. Flash talk at “ISACS: Challenges in Inorganic Chemistry”, University of Manchester.  
2016. Poster at “BORAM 2016”, Queen's University, Canada.  
2016. Poster at “UK-Japanese Asymmetric Catalysis Symposium”, University of Manchester.

*Invitation as a speaker:*

03/04/2025: Universidad Nacional de Rosario, Argentina (remote, Host: Prof. Martín J. Riveira)  
27/03/2025: Università di Parma, Italy (Host: Dr. Matteo Lanzi)  
11/03/2024: Università di Padova (Italy)  
13/10/2023 Università di Bari, Italy (Host: Prof. Renzo Luisi)  
27/04/2023 Chiesi Farmaceutici, Italy (Host: Dr. Paolo Ronchi)  
26/04/2023 Università di Bologna, Italy (Host: Prof. Marco Bandini)  
22/03/2023 Università del Piemonte Orientale, Italy (Host: Dr. Diego Caprioglio)

• **PUBLIC ENGAGEMENT**

Since 2024, Coordinator and trainer for Chemistry Olympiad (Reg./Nat. level), University of Milan  
2024 - Organiser of *Joint meeting on Natural Products* (Symposium at University of Milan)  
Since 2023 - *CHIMIallena*: training in organic chemistry for students preparing for Giochi della Chimica  
2023 - Organized two seminars in the department of chemistry (Univ. of Milan): speakers Dr P. Franco (Geolog), D. Caprioglio and D. Imperio (UniUPO)