

# Curriculum Vitae VALERIO FASANO

## • RESEARCH EXPERIENCE

**Current position** (since Dec 2022): Tenure Track Assistant Professor (RTD-B), University of Milan, Italy.

Research program focused on the development of novel strategies for selective pyridine modification with applications in late-stage functionalisation.

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:**

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 (Dec 2018-Dec 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 (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 (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 (2012), entitled 'Asymmetric Reduction of a Racemic Ferrocenyl Ketone'. Supervisor: Prof. D. Sciotto, University of Catania, Italy. Degree: 110/110 cum laude.

## • TEACHING EXPERIENCE

2022: Recent Strategies in Organoboron Chemistry - University of Milan.

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

2020 – 2021: Supervision of one MSc Student at the University of Bristol.

2019 – 2021: Technology and Automation in Organic Chemistry (training/marking for 1<sup>st</sup>-year PhD students) at University of Bristol. I provide training for 9 PhD students/year and related outreach activities.

2017: Supervision of one PhD Student at the University of Manchester.

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

## • FUNDING AWARDED

- 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).

## • 5 SELECTED PUBLICATIONS

5. 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

4. 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

3. V. Fasano, N. Winter, A. Noble, V. K. Aggarwal\*  
Divergent, stereospecific mono- and difluoromethylation of boronic esters.  
*Angew. Chem. Int. Ed.* 2020, 59, 8502

2. V. Fasano, J. Cid, R. J. Procter, M. J. Ingleson\*  
Selective boryl-anion migration in a vinyl sp<sup>2</sup>-sp<sup>3</sup> diborane induced by soft borane Lewis acids.  
*Angew. Chem. Int. Ed.* 2018, 57, 13293

1. V. Fasano, L. D. Curless, J. E. Radcliffe, M. J. Ingleson\*  
Frustrated Lewis Pair Mediated 1,2-Hydrocarbation of Alkynes.  
*Angew. Chem. Int. Ed.* 2017, 56, 9202

- **REVIEWING ACTIVITIES**

2022 Guest Editor for *Frontiers in Natural Product* (Frontiers). [Link to the editor](#)

2018 - 2022 Reviewer for *Chemical Communications* (RSC) and *Plants* (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**

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.