

CURRICULUM VITAE

PAOLO BIELLA

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1. SCIENTIFIC CAREER

I am Postdoctoral Researcher at the University of Milano - Bicocca, Italy, since April 2019, focusing on the impact of the land use on pollinators and pollination, with Prof. M. Labra and Dr. A. Galimberti of the Department of Biotechnology and Biosciences (Junior A2 research grant type in the Academic Discipline BIO/01).

In the Academic Year 2019/2020, I was **main lecturer and course holder in Biogeography**, a course belonging to the Master Degree in Biology at the University of Milano – Bicocca. During previous activities, and specifically since 2012, I taught (or took part in teaching of) University courses and practice activities and I held a number of seminars and popularization talks. I also interacted with several students, for example while supervising several theses. In 2019 and 2020, I was nominated Subject Expert and Teaching Assistant (“**Cultore della materia**”) both in Zoology and in Biology of Animal Interactions by the University of Milano - Bicocca.

In January 2019, I defended my PhD at the University of South Bohemia in České Budějovice, Czech Republic, with a dissertation entitled “*A conservation perspective on the mechanisms that influence plant-pollinator interactions*”. I completed the thesis (consisting of five chapters) within the canonical 4 years of PhD studies. During the period of the PhD degree, I also worked as research assistant at the Institute of Entomology at the Biology Centre (Czech Academy of Sciences) in České Budějovice, Czech Republic with Dr. J. Klecka. I mostly focused on pollination ecology, mutualistic networks and the ecology and distribution patterns of wild bees. In addition, I attended several specialist and regular courses and further improved my skills with traineeships. One of them took place in 2016 at the Biotechnology and

Biosciences Department, University of Milano - Bicocca (Italy) with dr. A. Galimberti, specializing myself in molecular identification of complex mixtures of pollen samples; another placement abroad was in 2018 at CEES, Oslo University (Norway) with dr. A. Nielsen and I specialized in advanced ecological network analyses.

Before that, in the 2011, I graduated in Natural Sciences (“Scienze e tecnologie per la natura” degree, “Environmental sciences and technologies”) with full marks and distinction (110/110 cum laude) at the University of Pavia (Italy), with a thesis co-supervised by Prof. J.M. Gómez Reyes (University of Granada, Spain). During my bachelor studies, I spent 10 months in Spain within an Erasmus exchange program, where I gained fluency in the Spanish language and learnt aspects of co-evolution, geographic selection mosaics, statistics, and image analyses for phenotype morphometrics. In the following two years, I completed the master studies with full marks and distinction (110/110 cum laude) at the University of Pavia, with a thesis co-supervised by Prof. J. Ollerton (University of Northampton, UK). During that time I spent 4 months at the University of Northampton, UK, thanks to a Erasmus Placement exchange program, during which I gained fluency in the English language and learnt aspects related to pollinator ecology, network analyses, statistics, results showing and presentations, manuscript writing. After defending the master thesis, I obtained a research contract as a research assistant at the University of Pavia, Department of Earth and Environment Sciences, where I focused on image analyses of tree cores samples for dendrochronology studies, with Prof. P. Nola.

Aside from education and research, since 2016, I have been founder and main organizer of the bi-annual conference of bumblebee specialists (i.e. *ABIM – Alpine Bombus International Meeting*). Moreover, I have conducted and/or taken part in intensive fieldwork in several Italian protected areas and National Parks, and in foreign countries, mainly in Maldives, Spain, UK, and Czech Republic. I have also presented my results in several international conferences and co-authored several publications in IF journals. Following a study I led on an endangered alpine bumblebee, I was invited to join the prestigious IUCN Bumblebee Specialist Group in 2017. In 2017/2018, I collaborated with other scientists and the Italian Ministry for Environment, Land and Sea Protection for the preparation of the monograph on the IUCN red list of the Italian threatened bees.

2. RESEARCH INTERESTS

At the moment, my main research interests are centred on mutualistic interactions with a focus on **conservation and biogeography**, especially plant - pollinator interactions, pollination ecology, pollinator animals, involving advanced DNA-based identification techniques, network analyses and statistical modelling. In other words, I am focusing on how human practices shape the landscape, which in turn impact the distribution of beneficial species and their interactions with others. To achieve this goal, I both use descriptive data collected from the field and field manipulation of complex multi-species mutualistic networks, for studying the effects of biodiversity loss on ecosystem functioning. I am also

investigating the pollination ecology and genetic structure of rare endemic plants of the Alps. I am focusing on the characterization of habitat requirements and the distribution of rare bumblebees. Furthermore, I have studied biogeographical topics in relation to bumblebee ecology, diversity and speciation and I will study the effect of regionalization and evolutionary history in coral reefs commensalistic systems.

Taxonomy, faunistics and DNA barcoding of Hymenoptera (Apoidea) and identification of European pollinating Diptera are also part of my interests.

3. SKILLS

- Speaking in public, results presenting; explaining concepts.
- Languages: Italian (native speaker);
English (fluent, 643/677 Toefl ITP with Listening B2, Writing C1, Reading B2);
Spanish (fluent);
Czech (A1);
Latin (Reading only).
- Statistical and other computer-related skills: mainly for multivariate analyses, regressions, network analyses, spatial analyses (including autocorrelation, species distribution modelling), data visualization, morphometric and image analyses: CRAN R (advanced), PAST (advanced) and SPSS (intermediate), QGIS (intermediate), MAXENT (intermediate), ImageJ (intermediate), tps (intermediate), Microsoft Office (advanced).
- Technical skills: morphometrics, DNA extraction, PCR, integrated (morphology - DNA) insect and plant identification, taxonomy, pollination ecology lab. techniques such as spectrometer for colour measurements, refractometer, colored dye for tracking pollen dispersal and pistils preparation for pollen-tubes counting, entomological preparation of insect samples, scientific writing.
- Taxonomic identification: Hymenoptera: Anthophila; Diptera: Muscidae, Calliphoridae, Tachinidae, Sepsidae, Chloropidae, Empididae, Syrphidae, Conopidae. Plants.
- Field samplings: especially in Botany and Entomology, flower visitors, insects, nectar, pollen, pistils.
- Literature search and database building.
- Personal skills: enthusiasm and curiosity for scientific aspects; confidence and spirit of initiative; multidisciplinary; precision and accuracy; goal setting; work scheduling.

4. PROFESSIONAL MEMBERSHIPS

- Since January 2020 The International Biogeography Society
- Since 2019 SItE, Società Italiana di Ecologia (Italian Ecological Society)
- Since 2018 SEI, Società Entomologica Italiana (Italian Entomological Society)
- 2018-2020 FAB, Flora Alpina Bergamasca (Bergamasque Alpine Flora)
- Since 2017 IUCN Bumblebee Specialist Group

5. EDUCATION

Academic degrees

- 2014-2018: PhD in Entomology, University of South Bohemia, České Budějovice, CZ. PhD Thesis: *“A conservation perspective on the mechanisms that influence plant pollinator interactions”*. Supervisors: Dr. Jan Klečka, dr. Štěpán Janeček; defended on 17th January 2019. The PhD title has been validated by the Italian Ministry of Instruction, University and Research on the 4th of June 2019, and it is considered equivalent to the “Dottore di ricerca” in the Italian University system.
- 2011/2012 –2012/2013: Master degree, University of Pavia (Italy) in “Scienze della natura, gestione del patrimonio naturalistico” (= Applied environmental sciences in nature management). Full marks and distinction (110/110 cum laude). Supervisors: dr.ssa S. Assini (Univ. Pavia), Prof. J. Ollerton (University of Northampton, UK). Defended on 6th April 2014. Master thesis title: *“Reproductive strategies of montane grasslands of the Northern Apennine (Mt. Lesima). A Network Analysis.”*
- 2007/2008 – 2010/2011: Bachelor (1st cycle) degree, University of Pavia (Italy) in “Scienze e tecnologie per la natura” degree (= Environmental sciences and technologies). Full marks and distinction (110/110 cum laude). Supervisors: Prof. G. Rossi (Univ. Pavia), Prof. J.M. Gómez Reyes (University of Granada, Spain). Graduated on 22nd September 2011. Bachelor thesis title: *“Morphologic variation of Erysimum mediohispanicum (Brassicaceae), Iberian endemism”*.

Specialist courses and workshops

- 2020 10-24 November: “Satellite Remote Sensing for Urban Heat Islands”, by NASA (on-line)
- 2020 5-19 November: “Remote Sensing for Mangroves in Support of the UN Sustainable Development Goals”, by NASA (on-line)
- 2019 29 November: “Use of quantile regression”, by Successione Ecologica at the University of Milano - Bicocca, Italy.
- 2019 26 September: “Guidance for assessing pesticide risks to bees”, University of Milano - Bicocca, Italy.

- 2016 4-8 April: “Introduction to Bayesian statistics applied to ecology”, by Wildlife Science snc at University of Pavia, Italy.
- 2014 21-25 July: “Taxonomy of Italian Coleoptera”, by A.S.N.M. at Natural History Museum, Verona.
- 2013 3-4 May: “How can we protect and conserve biodiversity” workshop and “Techniques of pollinator monitoring, sampling and first identification in the field” practical sessions, at University of Bologna, Italy .
- 2013 4-5 February: “Bee identification workshop”, by dr. Mike Edwards at L.B.R.G. of the University of Northampton, UK.
- 2012 18-21 June: “REMOTE SENSING 2012: observe, measure, model”, Summer School, University of Pavia.

6. ACADEMIC EMPLOYMENTS AND PLACEMENTS

- April 2019 - now Postdoctoral Researcher at the University of Milano - Bicocca, Department of Biotechnology and Biosciences, Italy (code 19A2/02; research grant type A2/Junior).
- October 2014 - March 2019 Research assistant at the Institute of Entomology, Biology Centre (Czech Academy of Science), České Budějovice, CZ; (employee).
- April 2018 Centre for Ecology and Evolution, University of Oslo (Norway); (traineeship).
- October 2016 - January 2017; and May - June 2017 Department of Biotechnology and Biosciences, University of Milano - Bicocca (Italy); (traineeship).
- July 2014 - September 2014 Research assistant, University of Pavia, Department of Earth and Environment Sciences; (employee).
- 2014 Arrangement of the entomological collections and the re-classification of wild bees at the Museum of Natural History of the University of Pavia (voluntary).
- January 2013 - March 2013 Department of Environmental and Geographical Sciences, University of Northampton, Prof. J. Ollerton (traineeship).
- October 2009 - June 2010 Department of Ecology, University of Granada (Spain), Prof. J. M. Gómez Reyes; (traineeship).

7. ACADEMIC SCHOLARSHIPS AND AWARDS

- October 2014 - September 2018 - Scholarship as PhD student at Faculty of Science, University of South Bohemia;
- April 2018 - Scholarship for traineeship aboard by the Faculty of Science, University of South Bohemia, Internal
- March 2018 - Scholarship for travelling to international conference by the Biology Centre (C.A.S., CZ), IBERA project
- January 2018 - Award for the best oral presentation at the PhD conference of the Department of Zoology, Faculty of Science, University of South Bohemia, CZ
- May - June 2017 - Scholarship for traineeship abroad by the Faculty of Science, University of South Bohemia
- 2016 December - Special scholarship for publication outputs by the Faculty of Science, University of South Bohemia.
- January 2013 - April 2014 - Erasmus Placement Program Scholarship.
- October 2009 - June 2010 - Erasmus Studium Program Scholarship.

8. RESEARCH ACTIVITY

- Since 2020 - Collaboration to the project GZ C060877 „ACRP12 - climbee - KR19AC0K17547“ awarded by Kommunal kredit Public Consulting to dr. B. Pachinger (University of Natural Resources and Life Sciences, *Vienna, Austria*)
- Since 2020 - Collaboration to the project NGS-67804R-20 awarded by National Geographic Society Grant to A. Akter (Biology Centre, Czech Republic)
- Since April 2019 - Took part to the project: “2016-NAZ-0228/D - Sistemi Alimentari e Sviluppo Sostenibile: Creare sinergie tra ricerca e processi

internazionali e africani” awarded to prof. M. Labra (University of Milano Bicocca, Italy).

- October 2014 - November 2018 - Took part to the Project: GP14-10035P; Project: GJ17-24795Y; awarded to Jan Klecka, funded by the Czech Science Foundation. Task: team member for field and laboratory research on pollination and network analyses; coordination; planning; experiment setting; sampling; data processing; results presenting and manuscripts writing.
- 2018-2019 - Collaboration to the project EC-376R-18 awarded by the National Geographic Society Early Career Grant to A. Akter (Biology Centre, Czech Republic)
- 2018-2019 - Project on pollination ecology of rare narrow-endemic plants. Parco Orobie Bergamasche through Flora Alpina Bergamasca, Prot. no. 1428 2018; Prot. no. 1283 MV/RC 2019; project leader, coordination; planning; sampling, data processing.
- 2017 - Collaboration for research activities at Czech Academy of Sciences, Department of Botany, Czech Republic, for taxonomic identification of pollinating diptera to calculate ecological quality indices.
- 2018 - Collaboration for research activities at Faculty of Science, University of South Bohemia, Czech Republic, for taxonomic identification of pollinating insects to calculate ecological indices of interactions between species.
- 2018 and 2014, 2015 - Field research on faunistics of bees in the Madonie National Park, Aspromonte National Park, Elba National Park, Adamello National Park, Puez-Odle Natural Park, Stelvio National Park, Sibillini National Park. Self funded; sampling permits prot. no. 4124/2018, no. 1723/2018, prot. no. 4097/2018, prot. no. 3290/10.8 of 2015, prot. no. 36.01.05/433161 of 2015, prot. no. 1451/8.1.1 of 2015 and 1630/8.1.1 prot. of 2015, no. 14 prot. 126/14 of 2014
- 2010 - Project: Consolider-Ingenio Montes (CSD2008-00040), coordinators: Prof. J. Retana (CREAF-UAB, Barcelona, Spain) and

Prof. J. M. Gómez Reyes (Dep. de Ecología, Universidad de Granada, Spain).

Task: field assistance, data analyses.

- 2013 - now
Personal visits to entomological collections of the following Museums: Biologiezentrum - Oberösterreichisches Landesmuseum in Linz, AU; Milan Natural History Museum, IT; Genova Natural History Museum, IT; Pavia Natural History Museum, IT; Verona Natural History Museum, IT; Museum of South Bohemia, Ceske Budejovice, CZ.

9. COLLABORATIONS

Active collaborations:

- For studies on pollination ecology and pollination networks:
 - o Dr. A. Nielsen, the University of Oslo, CEES (Norway);
 - o Prof. J. Ollerton, the University of Northampton (UK);
 - o Dr. A. J. Muñoz Pajares, CIBIO-InBIO, the University of Porto (Portugal);
 - o Prof. Jana Jersakova, the University of South Bohemia (CZ);
 - o Dr. Jan Klecka, Biology Centre CAS, Ceske Budejovice (CZ);
 - o Dr. A. Galimberti and prof. M. Labra, the Univeristy of Milano - Bicocca, BtBs (Italy);
- For studies of pollinator ecology, distribution and wild bees
 - o Dr. Barbel Pachinger, University of Natural Resources and Life Sciences, Vienna (Austria)
 - o Prof. M. Cornalba, University of Pavia (Italy);
 - o Dr. M. Quaranta, CRA, Bologna (Italy);
- For studies on the distribution and taxonomy of Hymenoptera Bombus:
 - o Prof. P. Rasmont, the University of Mons (Belgium);
- For studies on the distribution of coral reef species interactions:
 - o Dr. S.E.T. van der Meij, Groningen University (Netherlands);

10. SCIENTIFIC PRODUCTION

10.1. SUMMARY OF SCIENTIFIC PRODUCTION

- 20 publications in international peer-review journals with Impact Factor, after 2014
- 1 monograph and 1 book
- 3 publications in journals without Impact Factor

- 19 Oral Presentations and 11 Posters at conferences

- Bibliographic parameters at 12/01/2021:

Source "Google Scholar":

Number of citations 238

H index 9

Source "Scopus":

Number of citations 156

H index 9

- Academic age: 6 years

10.2. PUBLICATIONS IN IF JOURNALS

1. **Biella, Paolo*** et al. (2021). Why should a plant self-pollinate in unstable habitats? The case of the narrow-endemic toadflax *Linaria tonzigi* (Plantaginaceae) – *Plant Ecology* (in press).

2. Siddique, Abu, **Biella, Paolo*** et al. (2021). Mycobiomes of young Beech trees are distinguished by organ rather than by habitat, and community analyses suggest competitive interactions among the fungi – *Frontiers of Microbiology* (in press).

3. Akter, Asma, **Biella, Paolo** et al. (2020). Changing pollinator communities along a disturbance gradient in the Sundarbans mangrove forest: a case study on *Acanthus ilicifolius* and *Avicennia officinalis*. *Global Ecology and Conservation*, e01282.

DOI: 10.1016/j.gecco.2020.e01282

IF: 2.526

4. **Biella, Paolo***, Aleksandar Ćetković, Andrej Gogala, et al. – North-westward range expansion of the bumblebee *Bombus haematurus* into Central Europe is associated with warmer winters and niche conservatism. *Insect Science* (2020)

DOI: 10.1111/1744-7917.12800

Scopus ID: 2-s2.0-85087174803

IF: 2.791

Citations (Google Scholar 12/01/2021): 3

5. **Biella, Paolo***, Asma Akter, Jeff Ollerton, et al. - An empirical attack tolerance test impacts network structure and triggers asymmetrical reorganization. *Functional Ecology* (2020) 34: 2246– 2258.

DOI: 10.1111/1365-2435.13642

Scopus ID: 2-s2.0-85089866276

IF: 4.43

Citations (Google Scholar 12/01/2021): 2

6. Cornalba, Maurizio, **Paolo Biella*** and Andrea Galimberti. - DNA barcoding unveils the first record of *Andrena allosa* for Italy and unexpected genetic diversity in *Andrena praecox* (Hymenoptera: Andrenidae) – *Fragmenta entomologica* 52, 71-75

DOI: 10.4081/FE.2020.414

Scopus ID: 2-s2.0-85086932250

IF: 0.67

7. **Biella, Paolo*** et al. -. The spread of *Bombus haematurus* in Italy and its first barcode reference sequence – *Fragmenta entomologica* 52, 67-70

DOI: 10.4081/fe.2020.413

Scopus ID: 2-s2.0-85086939298

IF: 0.67

Citations (Google Scholar 12/01/2021): 3

8. Lecocq, Thomas, **Paolo Biella**, Baptiste Martinet, and Pierre Rasmont. "Too strict or too loose? Integrative taxonomic assessment of *Bombus lapidarius* complex (Hymenoptera: Apidae)." *Zoologica Scripta*, 00 (2019): 1-10.

DOI: 10.1111/zsc.12402

Scopus ID: 2-s2.0-85076355365

IF: 2.603

Citations (Google Scholar 12/01/2021): 1

9. **Biella, Paolo***, Nicola Tommasi, Asma Akter, et al. "Foraging strategies are maintained despite workforce reduction: A multidisciplinary survey on the pollen collected by a social pollinator." *PloS one* 14 (2019): e0224037.

DOI: 10.1371/journal.pone.0224037

Scopus ID: 2-s2.0-85074529745

IF: 2.740

Citations (Google Scholar 12/01/2021): 8

10. **Biella, Paolo***, Asma Akter, Jeff Ollerton, et al. "Experimental loss of generalist plants reveals alterations in plant-pollinator interactions and a constrained flexibility of foraging." *Scientific reports* 9 (2019): 7376.

DOI: 10.1038/s41598-019-43553-4

Scopus ID: 2-s2.0-85065767445

IF: 3.998

Citations (Google Scholar 12/01/2021): 20

11. Klecka, Jan, Jiří Hadrava, **Paolo Biella**, and Asma Akter. "Flower visitation by hoverflies (Diptera: Syrphidae) in a temperate plant-pollinator network." *PeerJ* 6 (2018), e6025.

DOI: 10.7717/peerj.6025

Scopus ID: 2-s2.0-85058322523

IF: 2.38

Citations (Google Scholar 12/01/2021): 30

12. Martinet Baptiste, Nicolas Brasero, Thomas Lecocq, **Paolo Biella**, et al. "Adding attractive semiochemical trait refines the taxonomy of *Alpinobombus* (Hymenoptera: Apidae)". *Apidologie* 49 (2018), 838-851.

DOI: 10.1007/s13592-018-0611-1

Scopus ID: 2-s2.0-85058865161

IF: 1.828

Citations (Google Scholar 12/01/2021): 5

13. Brasero, Nicolas, Baptiste Martinet, Thomas Lecocq, Patrick Lhomme, **Paolo Biella**, et al . "The cephalic labial gland secretions of two socially parasitic bumblebees *Bombus hyperboreus* (*Alpinobombus*) and *Bombus inexpectatus* (*Thoracobombus*) question their inquiline strategy." *Insect science* 25 (2018): 75-86.

DOI: 10.1111/1744-7917.12408

Scopus ID: 2-s2.0-85008425378

IF: 2.791

Citations (Google Scholar 12/01/2021): 12

14. Muñoz-Pajares, A. Jesus, Francisco Perfectti, João Loureiro, Mohamed Abdelaziz, **Paolo Biella**, et al. "Niche differences may explain the geographic distribution of cytotypes in *Erysimum mediohispanicum*." *Plant Biology* 20 (2018): 139-147.

DOI: 10.1111/plb.12605

Scopus ID: 2-s2.0-85028459542

IF: 2.393

Citations (Google Scholar 12/01/2021): 17

15. Martinet, Baptiste, Thomas Lecocq, Nicolas Brasero, **Paolo Biella**, et al. "Following the cold: geographical differentiation between interglacial refugia and speciation in the arcto-alpine species complex *Bombus monticola* (Hymenoptera: Apidae)." *Systematic Entomology* 43 (2018): 200-217.

DOI: 10.1111/syen.12268

Scopus ID: 2-s2.0-85040027051

IF: 4.237

Citations (Google Scholar 12/01/2021): 25

16. **Biella, Paolo***, Giuseppe Bogliani, Maurizio Cornalba, et al. "Distribution patterns of the cold adapted bumblebee *Bombus alpinus* in the Alps and hints of an uphill shift (Insecta: Hymenoptera: Apidae)." *Journal of Insect Conservation* 21 (2017): 357-366.

DOI: 10.1007/s10841-017-9983-1

Scopus ID: 2-s2.0-85018342730

IF: 1.4

Citations (Google Scholar 12/01/2021): 31

17. Akter, Asma, **Paolo Biella**, and Jan Klecka. "Effects of small-scale clustering of flowers on pollinator foraging behaviour and flower visitation rate." *PloS one* 12 (2017): e0187976.

DOI: 10.1371/journal.pone.0187976

Scopus ID: 2-s2.0-85033771617

IF: 2.740

Citations (Google Scholar 12/01/2021): 19

18. **Biella, Paolo***, Jeff Ollerton, Matteo Barcella, and S. Assini. "Network analysis of phenological units to detect important species in plant-pollinator assemblages: can it inform conservation strategies?." *Community Ecology* 18 (2017): 1-10.

DOI: 10.1556/168.2017.18.1.1

Scopus ID: 2-s2.0-85021121200

IF: 0.73

Citations (Google Scholar 12/01/2021): 19

19. Volf, Martin, Conor Redmond, Ágnes J. Albert, Yoann Le Bagousse-Pinguet, **Paolo Biella**, et al. "Effects of long-and short-term management on the functional structure of meadows through species turnover and intraspecific trait variability." *Oecologia* 180 (2016): 941-950.

DOI: 10.1007/s00442-016-3548-y

Scopus ID: 2-s2.0-84956952390

IF: 2.654

Citations (Google Scholar 12/01/2021): 36

20. **Biella, Paolo***, Riccardo Groppali "*Campylomorphus homalisinus* (Elateridae): a new species for Lombardy (Italy), with notes on its ecology, distribution and biogeography". *Biodiversity Data Journal* 2 (2014): e1075

DOI: 10.3897/BDJ.2.e1075

Scopus ID: 2-s2.0-85018572905

IF: 1.010

Citations (Google Scholar 14/09/2020): 2

10.3. BOOKS

21. Quaranta, Marino, Maurizio Cornalba, **Paolo Biella**, Mario Comba, Alessia Battistoni, Carlo Rondinini, Corrado Teofili. Red list IUCN of the Italian threatened bees (in Italian, Lista Rossa IUCN delle api italiane minacciate). Comitato Italiano IUCN e Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Roma. 65 pp. (2018).

22. **Biella, Paolo***. A conservation perspective on the mechanisms that influence plant pollinator interactions. Ph.D. Thesis Series, No. 11. University of South Bohemia, Faculty of Science, School of Doctoral Studies in Biological Sciences, České Budějovice, Czech Republic, 198 pp. (2018).

10.4. NOT IN IF JOURNALS

23. **Biella, Paolo***, Aberrazioni fiorali di *Linaria tonzigii* Lona, Notiziario Floristico FAB 56 (2019), 39-41

24. **Biella, Paolo***, Daniele Avesani, Adrian C. Pont. "New records of flower-visiting Muscidae (Diptera) from the Ligurian Apennines of Italy". *Studia Dipterologica*, 22 (2016): 51-55.

ISSN: 0945-3954

<http://www.studia-dipt.de/contente.htm>

25. **Biella, Paolo***. "Bombus (*Alpinobombus*) *alpinus* in the Italian Central Alps (Hymenoptera: Apidae: Bombinae)." *Il Naturalista Valtellinese* 25 (2015): 69-72.

www.sistemamusealevaltellina.it/index.php?option=com_jdownloads&task=download.send&id=1351&catid=59&lang=it

ISSN: 1120-6519

Citations (Google Scholar 14/09/2020): 2

10.5. MANUSCRIPTS

Biella, Paolo* et al. - City climate and landscape structure shape pollinators, nectar and transported pollen along an artificial gradient of urbanization – manuscript in revision

10.6. POSTERS AND TALKS AT CONFERENCES

Talks:

1. SCAPE 6-8 of November 2020 – UK (online), by **Biella** et al. ;
2. SCAPE 6-8 of November 2020 – UK (online), by Tommasi et al. ;

3. SCAPE 6-8 of November 2020 – UK (online), by Pioltelli et al. ;
4. SCAPE 6-8 of November 2020 – UK (online), by Guzzetti et al. ;
5. EcoFlor 4-6 of March 2020 – Bilbao, Spain, by **Biella** et al. ;
6. EcoFlor 4-6 of March 2020 – Bilbao, Spain, by Guzzetti et al. ;
7. EcoFlor 4-6 of March 2020 – Bilbao, Spain, by Tommasi et al. ;
8. 80° Congresso Nazionale UZI (Unione Zoologica Italiana), 23-26 September 2019 – Roma, Italy by Tommasi et al. ;
9. 49° Annual Meeting of the Ecological Society of Germany, Austria and Switzerland (GfO), 9-13 September 2019 by Tropek et al. ;
10. SItE, XXIX Congresso Nazionale S.It.E (Società Italiana di Ecologia) 10-12 Settembre 2019 - Ferrara, Italy, by **Biella** et al. ;
11. EcoFlor 14-16 of March 2019 – Granada, Spain, by **Biella** et al. ;
12. Scandinavian Association for Pollination Ecology SCAPE 18-21 October 2018 –Blessington, Dublin, Ireland, by **Biella** et al. ;
13. Scandinavian Association for Pollination Ecology SCAPE 18-21 October 2018 –Blessington, Dublin, Ireland by Akter et al. ;
14. ABIM Alpine Bombus International Meeting 29 - 31 of July 2018 – Ecrins National Park, France, by **Biella** et al. ;
15. EcoFlor 1-3 of February 2018 - Palma de Mallorca, Spain, by **Biella** et al. ;
16. SCAPE 26-29 of October 2017 - Drobak, Norway, by **Biella** et al. ;
17. Zoodny 9-10 February 2017 – Brno, CZ, by **Biella** et al. ;
18. ABIM 20-22 July 2016 - University of Turin and Gran Paradiso National Park, Italy, by **Biella** et al. ;
19. 1st International Meeting on Plant Reproduction 15-16 September 2014 - University of Bologna, Italy, by **Biella** et al. ;

Posters presented:

1. EcoFlor 4-6 of March 2020 – Bilbao, Spain, by Pioltelli et al. ;
2. EcoFlor 4-6 of March 2020 – Bilbao, Spain, by Valente et al. ;
3. Ecological Society of Australia, 25-29 November 2018 by Akter et al. ;
4. XI European Congress of Entomology, ECE2018 20-22 July 2018 - Naples, Italy by **Biella** et al. ;
5. SCAPE 13-16 October 2016 – Abisko National Park, Sweden by **Biella** et al. ;
6. SCAPE 13-16 October 2016 – Abisko National Park, Sweden by Akter et al. ;
7. Ecological Networks: Theory, Empiricism and Practice in a Changing World 7-8 September 2015, University of Bristol, UK by **Biella** et al. ;
8. Ecological Networks: Theory, Empiricism and Practice in a Changing World 7-8 September 2015, University of Bristol, UK by Akter et al. ;

9. 109° Congress of the Società Botanica Italiana 2-5 September 2014 - Firenze, Italy by **Biella et al.**;
10. 109° Congress of the Società Botanica Italiana 2-5 September 2014 - Firenze, Italy by Nola et al.;
11. UK and Ireland Bumblebees working group 11 April 2013 – Northampton, UK by **Biella et al.**;

11. ADMINISTRATION

- Editorial Board member of the specialized journal “Biodiversity Data Journal” (IF = 1.331).
- Invited Co-Editor of a Special Issue on the scientific journal “Diversity” (in March 2020).
- Main organizer of the conferences “ABIM, Alpine Bombus International Meeting” in 2016, 2018 and 2020 (<https://alpinebombus.wixsite.com/abim>).
- Writing grant proposals.
- Reviewing 26 research manuscripts for IF journals.

12. DIDACTIC ACTIVITY

Teaching and invited seminars:

- 2019/2020 **Lecturer and course holder in Biogeography** (“professore a contratto”), code F0601Q066, Master Degree in Biology of the University of Milano – Bicocca
- 2020, November Lecture/seminar (2 hrs) in the course *Animal biological interactions*, University of Milan Bicocca. Course director: dr. A. Galimberti (online).
- 2020, May Lecture/seminar (2 hrs) in the course *Entomology applied to the agro-environment*, University of Pavia. Course leader: dr. E. Cardarelli (online).
- 2019, October Lecture/seminar (2 hrs) at the Marine Research and High Education (MarHE) Center of the University of Milano - Bicocca, Magoodhoo Island, Republic of the Maldives, in the framework of the academic workshop *Tropical Marine Ecology*.
- 2019, November 2 Lectures/seminars (2 hrs each) in the course *Animal biological interactions*, University of Milano - Bicocca, BtBs. Course leader: dr. A. Galimberti.

- 2018, October Lecture/seminar (2 hrs) in the course *Biology of Animal Interactions*, University of Milano - Bicocca, BtBs. Course leader: dr. A. Galimberti.
- 2017, November Lecture/seminar (2 hrs) in the course *Animals biological interactions*, University of Milano - Bicocca, BtBs. Course leader: dr. A. Galimberti.
- 2016 Practice activities classes (30 hrs) in the course *Interactions between plants and animals*, University of South Bohemia. Course leader: Prof. Jana Jersakova.
- 2015, April-May 5 Lectures/seminars (2 hrs each) in the course *Laboratory of plant ecology and conservation* at the University of Pavia. Course leader: Graziano Rossi.
- 2014, April Lecture/seminar (4 hrs) to students in the course *Laboratory of environmental methods and technologies* at the University of Pavia. Course leader: Silvia Assini.
- 2013, 2012 Tutoring classes (70 hrs) in *Botany* for Bachelor students of Natural Sciences degree, University of Pavia. Course leader: Prof. P. Nola.
- 2012 Tutoring classes (90 hrs) in *Botany* for Bachelor students of Biology degree, University of Pavia. Course leader: Prof. E. Savino.

Additional teaching

- In 2019 and in 2020, I was nominated "*Cultore della Materia*" (Subject Expert and Teaching Assistant) both in Zoology and in Biology of Animal Interactions by the University of Milano – Bicocca. These courses belong to the BIO/05 scientific-disciplinary sector, and I participated at examinations of students in these courses.
- I am supervising 1 student master Thesis at the moment (University of Milano Bicocca). In the past, I co-supervised 3 students Theses (1 pre-graduate and 2 post-graduate students' theses for the University of Insubria, University of Milan, University of Milano Bicocca in 2020, 2019, and 2017).
- I examined students in the course I lectured (Biogeography).
- In 2020 I was appointed as alternate member of the assessment panel of a doctoral thesis of a student from the University of the Balearic Islands.

Science popularization:

