FORMATO EUROPEO PER IL CURRICULUM VITAE

PERSONAL INFORMATION

Name	**MINUTO LUIGI**
Address	**SALITA GRANAROLO 15 - 16127 GENOVA, ITALIA**
Telephone	**(+39) 328 0170613**
E-mail	**luigi.minuto@unige.it**
Nationality	Italiana
Date of birth	12.05.1964

WORK EXPERIENCES

• Position	Professore Ordinario
• Employer	DISTAV - Università degli Studi di Genova, Genova, Italia
• Date (from – to)	Mar 2022 - ora
• Position	Presidente del Centro di Servizi per i Giardini Botanici Hanbury
• Employer	GBH&HBG - Università degli Studi di Genova, Ventimiglia, Italia
• Date (from – to)	Gen 2024 - oggi
• Position	Direttore Area Protetta Regionale Giardini Botanici Hanbury/Area Tutela Marina di Capo Mortola
• Employer	Regione Liguria, Italia
• Date (from – to)	Gen 2024 - oggi
• Position	Vice Direttore dei Giardini Botanici Hanbury
• Employer	CENVIS - Università degli Studi di Genova, Ventimiglia, Italia
• Date (from – to)	Jan 2019 - 2023
• Position	Membro di Giunta
• Employer	DISTAV - Università degli Studi di Genova, Genova, Italia
• Date (from – to)	Nov 2021 - 2023
• Position	Professore Associato
• Employer	DISTAV - Università degli Studi di Genova, Genova, Italia
• Date (from – to)	Feb 2015 – Feb 2022
• Position	Ricercatore confermato a tempo pieno
• Employer	Facoltà di Scienze M.F.N. - Università degli Studi di Genova, Genova, Italia
• Date (from – to)	Nov 2000 – Jan 2015
• Position	Curator of the Botanical Garden
• Employer	Università degli Studi di Genova, Genova, Italia
• Date (from – to)	Jan 1989 – Oct 2000

EDUCATION AND TRAINING

• Date	2017
• ASN 1° fascia 05/A1-Botanica	Full professor
• Date	1988
• Degree in Natural Sciences	

CAPALITY AND PERNONAL COMPETENCES.

NATIVE LANGUAGE **ITALIAN**

OTHER LANGUAGES **ENGLISH**

EDUCATIONAL ACTIVITIES

He has been teaching since 1992, mainly in universities, but has also held training and botanical courses for external organizations and associations.

Holder of the following courses:

- **Botanica Sistematica** (cod. 57291 - 10 CFU) per il 2° anno del Corso di Laurea 9916 SCIENZE AMBIENTALI E NATURALI (L-32), negli anni accademici 2021/22- oggi.
- **Biodiversità vegetale e Fitognosia** (cod. 108883 - 3 CFU) per il 2° anno del Corso di Laurea 9916 SCIENZE AMBIENTALI E NATURALI (L-32), negli anni accademici 2022/23- oggi.
- **Botanica e Micologia Marina** (cod. 94742 - 5 CFU) per il 1° anno del Corso di Laurea 10723 BIOLOGIA ED ECOLOGIA MARINA (LM-75), negli anni accademici 2024/25 a oggi.
- **Campagna Naturalistica** (cod. 32013 - 3 CFU) per il Corso di Laurea 9916 SCIENZE AMBIENTALI E NATURALI (L-32), negli anni accademici 2021/22- oggi.

Thesis supervisor for numerous students in the Bachelor's and Master's Degrees in Biological Sciences and Natural Sciences

Since 2004, he has been a member of the teaching staff of the PhD Program in Botany Applied to Agriculture and the Environment at the University of Genoa. Cycles XIX - XXVIII.

Since 2013, he has been a member of the teaching staff of the Program in Sciences and Technologies for the Environment and the Territory (STAT) - Curriculum in Botany Applied to Agriculture and the Environment (code 5526) at the University of Genoa. Cycles XXIX - XXXVII.

Scientific tutor for 8 PhDs from 2010 up today:

- 2010-2012. Dottorando: Marcello Airò. - DOT0611007, XXIII ciclo.
- 2011-2013. Dottorando: Federica Nicoletti. - DOT0611007, XXVI ciclo.
- 2012-2014. Dottorando: Maria Guerrina. - DOT0611007, XXVII ciclo.
- 2015-2017. Dottorando: Davide Dagnino. - DOT1311038, XXX ciclo.
- 2016-2018. Dottorando: Carmelo, Nicodemo Macrì. - DOT1311038, XXXII ciclo.
- 2019-2022. Dottorando: Lucia Varaldo. - DOT1311038, XXXV ciclo.
- 2022-2025. Dottorando Chiara Bonifazio - DOT1311038, XXXVII ciclo
- 2024-2027 Dottorando Geordie Biffoni – DOT1311038. XL ciclo

SCIENTIFIC RESEARCH

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His research focuses primarily on systematic botany, plant population genetics, biogeography, and reproductive biology. His work has been conducted as part of national (FIRB coordinator, PRIN collaborator) and European (Alcotra and Life Projects) research programs, and has led to the publication of scientific articles in international journals.

Scientific production consists of: 63 articles in journals with IF; 58 articles in peer-reviewed journals without IF; 45 journal abstracts; 21 contributions to volumes; 4 monographs or scientific treatises; 22 contributions to conference proceedings; 100 abstracts in conference proceedings; 2 edited works and 1 exhibition..

Some bibliometric data (updated to August 15, 2025):

	Scopus	Web of Science	Google Scholar
Articoli censiti	96	96	105
Citazioni totali	1348	1327	1791
H index	20	20	20

The research activity is carried out within the following topics:

a <u>Biogeography:</u>

Phylogeography and population genetics of numerous endemic and subendemic species of the Western Alps. Molecular analyses to understand gene flow and possible genetic drift in endemic species with few populations and few individuals to assess their extinction risk. Evaluation of the quantity and distribution of endemic species in Liguria and the Western Alps. Theoretical insights into the method for identifying centers and areas of endemism, and the biotic elements using the Maritime Alps as a case study.

b - <u>Taxonomy:</u>

Integrated taxonomy investigations of large taxonomic groups (and endemic species of the Western Alps). Discovery and characterization of new species in the Maritime Alps.

Thanks to many years of fieldwork, new species have been repeatedly recorded for Liguria and Italy. By applying the calculation of potential niches in geographic and ecological space, we have

attempted to implement the new trend of integrative taxonomy, which takes into account not only morphological and genetic aspects but also the ecological needs of closely related taxonomic entities (sister species, subspecies, and varieties).

c - Biology and Reproductive Ecology:

Plant/animal relationships, with particular emphasis on pollen and the mechanisms of pollination and dissemination of endemic species. Reproductive and sexual strategies of endemic species linked to specific habitats. Seed characteristics and germination capacity. Evaluation of germination niches

d Ecological niche analysis:

Assessment of the habitat suitability of endemic species using Species Distribution Models (SDMs). Future projections of the distribution of rare species based on future climate models

e - Biodiversity Conservation:

Demographic studies on threatened species. In particular, the in vitro propagation of very rare plants for the *ex situ* production of new individuals and subsequent plans to strengthen declining populations. *Ex situ* and *in situ* conservation experiments on endangered species. Organization of the Ligurian Regional Germplasm Bank and collaborations in the development of action plans for endemic species.

f - Botanical Gardens:

Historical knowledge of the garden's evolution and, especially, its collections.

Historical reconstruction of the connections between Ligurian botanical gardens.

RESEARCH PROJECTS OF THE LAST 5 YEARS

2024/26 – **Interreg-Maritime 00037 "**Cap'M" -partecipante come Centro di Servizi per i Giardini Botanici Hanbury (GBH&HBG) dell'Università di Genova e dell'Area Protetta regionale Giardini Botanici Hanbury, – Partner.

2023/25 - Progetto SIMBIOSI - Fondazione Compagnia di San Paolo "Blue &Green", partecipante come capofila di progetto CENVIS Giardini Botanici Hanbury (GBH) dell'Università di Genova - Capofila

2023/25 – **Programma di Sviluppo Rurale 2014-2020** Regione Liguria. sottomisura **M10.02** – Progetto di cooperazione "Rifiorire", partecipante come esperto del Dipartimento per lo Studio del Territorio, dell'Ambiente e della Vita (DISTAV) dell'Università di Genova, partner.

2023/25 – **Programma di Sviluppo Rurale 2014-2020** Regione Liguria. sottomisura **M10.02 -** Progetto di cooperazione "Whitebean", partecipante come esperto del Dipartimento per lo Studio del Territorio, dell'Ambiente e della Vita (DISTAV) dell'Università di Genova, partner.

2022/25 – **Progetto Europeo ALCOTRA 20008** "Natura e Cultura per tutti 2" (Nat+Cult.2) – partecipante come capofila di progetto CENVIS Giardini Botanici Hanbury (GBH) dell'Università di Genova - Capofila.

2022/26 – **Progetto PNRR del MiC, missione M1C3 Invest. 2.3** "Restauro di Giardino storico Hanbury, adeguamento impiantistico e valorizzazione finalizzati alla fruizione" – CUP D38C22000020006

2021/23– **Programma di Sviluppo Rurale 2014-2020** Regione Liguria. sottomisura **M16.01** – settore AGRICOLO. Progetto di cooperazione "PSAMMbeach", partecipante come esperto DISTAV dell'Università di Genova, partner.

2021/25 Progetto PANN20_00332 "Inside Hanbury Charm" - Percorso esperienziale

2020/23 – **Progetto Europeo ALCOTRA 5645** "Monver - Mondo verde - Monde vert" – partecipante come capofila di progetto CENVIS Giardini Botanici Hanbury (GBH) dell'Università di Genova - Capofila.

2020/23 – **Progetto PRIN 2017** (2017JW4HZK) " PLAN.T.S. 2.0 – towards a renaissance of PLANt Taxonomy and Systematics" Unità operativa di Genova – Committente: MIUR e Università di Genova – Responsabile di unità.

2019/22 – **Programma Europeo ALCOTRA PS2 "COBIODIV"**- partecipante come esperto del DISTA) dell'Università di Genova, soggetto attuatore di ARPAL.

SCIENTIFIC PUBLICATIONS IN JOURNALS WITH IMPACT FACTOR **OF THE LAST 5 YEARS**

1. BONIFAZIO C., GUERRINA M., ARMANINO F., CASAZZA G., GALLI L., VARALDO L., ZAPPA E., MINUTO L., 2025. Reproductive biology of *Santolina ligustica* Arrigoni, a rare narrow-ranged species: implications for conservation. Botanical Journal of the Linnean Society, 207: 40–46. DOI: 10.1093/botlinnean/boae03144. MINUTO L.,
2. GUERRINA M., DAGNINO D., MINUTO L., CASAZZA G., 2024 - Unveiling the hypotheses of endemic richness: A study case in the Southwestern Alps. Perspectives in Plant Ecology, Evolution and Systematics, 63: 125792. DOI: 10.1016/j.ppees.2024.125792
3. FRANZONI J., ASTUTI G., BARTOLUCCI F., BERNARDO L., FIOR S., CASAZZA G., CONTI F., IAMONICO D., IBERITE M., MINUTO L., TURINI A., PERUZZI L. 2024. Different species or altitudinal morphotypes? Testing the taxonomic value of *Dianthus brachycalyx* (Caryophyllaceae). Taxon, 73: 1405-1418. DOI: 10.1002/tax.13237
4. FRANZONI, J.; ASTUTI, G.; BACCHETTA, G.; BARONE, G.; BARTOLUCCI, F.; BERNARDO, L.; CARTA, A.; CONTI, F.; DOMINA, G.; FRAJMAN, B.; GIUSSO DEL GALDO, G.P.; IAMONICO, D.; IBERITE, M.; MINUTO, L.; SARIGU, M.; TERLEVIĆ, A.; TURINI, A.; VARALDO, L.; VOLGGER, D.; PERUZZI, L., 2024 - Cytosystematic study of the *Dianthus virgineus* complex (Caryophyllaceae) in the Central Mediterranean. Journal of Systematics and Evolution, 62: 589-602. DOI: 10.1111/jse.13025
5. CASAZZA G., GUERRINA M., DAGNINO D., MINUTO L., CONTI E., 2023 - Will Natura 2000 European network of protected areas support conservation of Southwestern Alps endemic flora under future climate? Biodiversity and Conservation, 32: 1353–1367 DOI : 10.1007/s10531-023-02556-4
6. VARALDO L., GUERRINA M., DAGNINO D., MINUTO L., CASAZZA G., 2023 – Dealing with disjunct populations of vascular plants: implications for assessing the effect of climate change – Oecologia, 201: 421-434 DOI: 10.1007/s00442-023-05323-y
7. GIACÒ A., DE GIORGI P., ASTUTI G., VARALDO L., MINUTO L., PERUZZI L., 2022 - Taxonomy and distribution of the genus *Santolina* (Asteraceae) in Italy. Biogeographia, 37 (2022): a021. doi.org/10.21426/B637258322
8. GUERRINA M., CASAZZA G., DAGNINO D., MACRÌ C., ROCCOTIELLO E., MINUTO L., 2022 - Reproductive ecology of *Saxifraga florulenta*, a monocarpic perennial paleo-endemic of the Alps. Plant Biosystems 156: 252-260. DOI: 10.1080/11263504.2020.1852328
9. DE GIORGI P., ANTONIO GIACÒ A., ASTUTI G., MINUTO L., VARALDO L., DE LUCA D., DE ROSA A., BACCHETTA G., SARIGU M., PERUZZI L., 2022 - An integrated taxonomic approach points towards a single-species hypothesis for *Santolina* (Asteraceae) in Corsica and Sardinia. Biology 11(3), 356; https://doi.org/10.3390/biology11030356
10. GUERRINA M., THEODORIDIS S., MINUTO L., CONTI E., CASAZZA G., 2022 - First evidence of post-glacial contraction of Alpine endemics: insights from *Berardia subacaulis* in the European Alps. Journal of Biogeography, 49: 79-93 DOI: 10.1111/jbi.14282
11. THOMAS ABELI T., et al., 2021 - IDPlanT: The Italian Database of Plant Translocation. Plant Biosystems 155(6): 1174-1177. DOI: 10.1080/11263504.2021.1985004
12. DOMINA G., ASTUTI G., BARONE G., GARGANO G., MINUTO L., VARALDO L., PERUZZI L., 2021 - Lectotypification of the Linnaean name *Dianthus virgineus* (Caryophyllaceae) and its taxonomic consequences. Taxon 70: 1096-1100. DOI: 10.1002/tax.12563
13. CASAZZA G., ABELI T., BACCHETTA G., DAGNINO D., FENU G., GARGANO D., MINUTO L., MONTAGNANI C., ORSENIGO S., PERUZZI L., VARALDO L., ROSSI G., 2021 - Combining conservation status and species distribution models for planning assisted colonisation under climate change. Journal of Ecology 109: 2284–2295. DOI: 10.1111/1365-2745.13606
14. CASAZZA G., MACRÌ C., DAGNINO D., GUERRINA M., JUIN M., MINUTO L., THOMPSON J.D., BAUMEL A., MEDAIL F., 2021 - When ecological marginality is not geographically peripheral: exploring genetic predictions of the centre-periphery hypothesis in the endemic plant *Lilium pomponium*. PEERJ 9: e11039. DOI: 10.7717/peerj.11039
15. MINUTO L., CASAZZA G., DAGNINO D., GUERRINA M., MACRÌ C., MARIOTTI M.G., 2021 - Management of an invasive plant in a Mediterranean protected area: the experience of *Senecio deltoideus* in Italy. Annali di Botanica 11: 1-12. doi: 10.13133/2239-3129/16852
16. MACRÌ C., DAGNINO D., GUERRINA M., MEDAIL F., MINUTO L., THOMPSON J.D., CASAZZA G., 2021 - Effects of environmental heterogeneity on phenotypic variation of the endemic plant *Lilium pomponium* in the Maritime and Ligurian Alps. Oecologia 195: 93-103. DOI: 10.1007/s00442-020-04806-6
17. ELLIS L.T., et al., 2020 - New national and regional bryophyte records, 64. Journal of Bryology, 42:4, 393-412, DOI: 10.1080/03736687.2020.1831289
18. ELLIS L.T., et al., 2020 - New national and regional bryophyte records, 63, Journal of Bryology, 42:3, 281-296, DOI: 10.1080/03736687.2020.1750930
19. DAGNINO D., GUERRINA M., MINUTO L., MARIOTTI M., MÉDAIL F., CASAZZA G., 2020- Climate change and the future of endemic flora in the South Western Alps: relationships between niche properties and extinction risk. Regional Environmental Change 20: 121. DOI: 10.1007/s10113-020-01708-4

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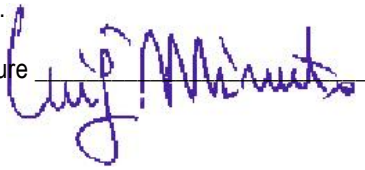
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