

## Curriculum Vitae



### Personal information

**First name(s) / Surname(s)** **Mariyana Ivanova Lyubenova**  
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**Nationality** Bulgarian  
**Date of birth** 06.09.1955  
**Gender** Female

### Work experience

**Work experience** 36 years  
**Dates** 2000 – Present  
**Occupation or position held** Assoc. Professor  
**Main activities and responsibilities** Lecturer, manager of scientific investigations and teams  
**Name and address of employer** Department of Ecology and Environmental Protection, Sofia University st. "Kliment Ohridski"  
**Type of business or sector** Science and Education  
**Dates** 1993 - 2000  
**Occupation or position held** Chief Assistant  
**Main activities and responsibilities** Lecturer, manager of scientific investigations  
**Name and address of employer** Department of Ecology and Environmental Protection, Sofia University "St. Kliment Ohridski"  
**Type of business or sector** Science and Education  
**Dates** 1989 - 1993  
**Occupation or position held** Senior Assistant  
**Main activities and responsibilities** Teacher, member of scientific teams, responsible for carrying out scientific tasks  
**Name and address of employer** Department of Ecology and Environmental Protection, Sofia University st. "Kliment Ohridski"  
**Type of business or sector** Science and Education  
**Dates** 1986-1989

Occupation or position held	Assistant
Main activities and responsibilities	Teacher, member of scientific teams
Name and address of employer	Department of Ecology and Environmental Protection, Sofia University st. "Kliment Ohridski"
Type of business or sector	Science and Education
Dates	1981 - 1986
Occupation or position held	Biologist
Main activities and responsibilities	assistance in teaching and research
Name and address of employer	Department of Ecology and Environmental Protection, Sofia University st. "Kliment Ohridski"
Type of business or sector	Science and Education
Dates	1979-1981
Occupation or position held	Biologist
Main activities and responsibilities	assistance in researches in the area of plant ecology – structure and function of plant communities, forest ecology.
Name and address of employer	Institute of Botanic and Microbiology, Bulgarian Academy of Science, Sofia
Type of business or sector	Science and Education
Dates	1978 - 1979
Occupation or position held	Biologist
Main activities and responsibilities	assistance in researches in the area of mineral nutrition of hydro sprout and crops
Name and address of employer	Institute of Plant Physiology, Bulgarian Academy of Sciences, Sofia
Type of business or sector	Science and Education

### Teaching experience

Dates	1986 - Present
Name and address of employer	Department of Ecology and Environmental Protection, Sofia University st. "Kliment Ohridski"
Courses	<p>For bachelor degree:</p> <p>"Ecology and environmental protection"</p> <p>"Bio resources and their protection "</p> <p>"Methods of ecological researches"</p> <p>"Ecological monitoring"</p> <p>For master degree:</p> <p>"Functional biocoenology"</p> <p>"Phytoecology"</p> <p>"Ecotoxicology"</p> <p>"Chronoecology"</p> <p>"Natural ecosystems"</p> <p>Head of 45 masters graduate students</p> <p>Leader and advisor to four PhD students</p>

### Education and training

Dates	1984-1988
Title of qualification awarded	<i>Doctor</i>

Principal subjects/occupational skills covered  
 Title of dissertation: "Primary biological production and energetic reserves of *Quercus frainetto-Quercus cerris* forest ecosystems in Vakarelska mountain"  
 Head: Prof. Dr. I.A.Bondev  
 Field and Laboratory study of the species composition and dominant species structure of plant communities, structure and amount of overhead and below ground biomass and primary production, efficiency, energy flow, intensity of the biological cycle in oak forests.

Name and type of organisation providing education and training  
 Institute of Botany and Mycology, Bulgarian Academy for Sciences, Sofia

Dates  
 1973-1978

Title of qualification awarded  
 Doctor of biological sciences

Principal subjects/occupational skills covered  
 Title of thesis: "Influence of water-soluble bioactive substances from *Nicotiana tabacum* L. on the quantity and quality of hamazulen oil of *Matricaria hamomilla* L."

Head: Prof. Dr. I.A.Bondev

Field and laboratory research in connection with the introduction of chamomile as a second crop in seytboobrashtenie with *Nicotiana tabacum* L.

Name and type of organisation providing education and training  
 Sofia University, Department of Biology

**Personal skills and competences**

Mother tongue(s)  
 Bulgarian

Other language(s)

Self-assessment

European level (\*)

**English**

**Russian**

Understanding		Speaking		Writing					
Listening		Reading		Spoken interaction		Spoken production			
	B2		B2		B2		B2		C1
	B2		B2		B2		B2		B2

(\*) [Common European Framework of Reference for Languages](#)

Social skills and competences  
 Participated in international seminars of non-government organizations on environmental problems in Turkey, Macedonia and Austria.

Reviewer of doctoral theses, research works to specialized scientific counsels and of scientific books and journals

Rapporteur in the Scientific commission on Agronomy and Forestry, Higher Attestation Commission for discussion of scientific degrees and academic degrees.

Good communication skills

Organisational skills and competences	<p>Member of:</p> <p>Balkan Environmental Federation  Balkan Academy of Science and Culture  Union of scientists in Bulgaria, Section Biology  AASCIT  Editorial Board of International Journal of Ecological Science and Environmental Engineering  Editorial Board of Journal of Balkan Ecology  Editorial Board of the book Botany of the Annual of Sofia University  President of NGO "Europe for all."  Association of Innovative Economy  Member of the MC of 4 COST Actions  Member of the Advisory Board of the Directory of Vitosha Nature Park Member of advanced and specialized councils and committees.  Member of the school commission of the faculty of Biology - to 2006  Responsible - Scientific research work at the department until 2013</p>
Technical skills and competences	water bomb calorimeters, ecotoxicology tests and Lintab.
Computer skills and competences	Good computer skills and experience in working with Microsoft Office as well as statistical packages Excel, Statistika and Statgraphics. Experience with Revere; Driving license category B
Artistic skills and competences	HOBBY - WRITING
Other skills and competences	Replace this text by a description of these competences and indicate where they were acquired. (Remove if not relevant, see instructions)

### Additional information

1. List of participations in national and international projects (see attached lists)
2. List of publications

### Annexes

List any items attached. (Remove heading if not relevant, see instructions)

### Focus of the scientific research

In the field of structural and functional Plant ecology, Ecosystem modeling, Plant monitoring and Protection: Problems affecting allelopathy, primary production, net assimilation, biological turnover, energy flux and energy use, accumulation of organic elements and toxicants in plant biomass. Research also affect issues such as: plant diversity, ecosystem health and risk assessment, rational use, conservation and regeneration of plants and their communities , modeling and the usage of monitoring data (as dendro-chronology) for diagnostics, prediction and protection of the environment and vegetation.

### PROJECTS

#### *International and Operational programs*

COST Action FP1304 PROFOUND 2014 -2018 "Towards robust PROjections of European FOrests UNDer climate change" – MC member and national coordinator.

COST Action FP1106 2012-2016 "STReSS - Studying Tree Responses to extreme Events: a SynthesiS" – MC member and national coordinator.

COST Action ES0805- 12.06. 2009-2014 - The Terrestrial Biosphere in the Earth System – MC member and national coordinator; WG „Modeling Plant Ecology“.

COST FP Action ES1101 2012-2016 „Harmonizing Global Biodiversity Modelling (HarmBio) – MC member and national coordinator; WG“Standardized datasets of biodiversity and environment”.

Contract No 4-25-2008, Funding organization Austrian Science and Research Liaison Office, 2008 - 2009. A science based approach to understand biodiversity driven functions and services for improving wetland management; Institute of Biodiversity and Ecosystem Investigations, BAS - expert.

Phare Aid/120600/D/SV/BG2007 – 2008 “Strengthening of administrative capacity at local level for implementation of environmental legislation” – expert.

BBI/MATRA Project № 014/2006 Alterra –Wageningen/Green Balkans Wildlife Society/Bulgarian Foundation of Biodiversity/2006-2008. “Favourable Conservation Status of Nature - 2000. Habitats and Species in Bulgaria”. Zinstra, H. (manager). I. Marin (national coordinator) Task: Development of Criteria for Favourable Conservation Status of Species and Habitats (Inventory of conservation important regions and species in following districts – Osogovo Mountain, “Gabra” district, Dospat ravine) –Leader of field team.

BG051PO001-4.3.04-0033/2013-14 "Development and implementation of electronic forms of distance learning in the Faculty of Chemistry and Pharmacy at the University" St. Kliment Ohridski ". Operational Programme "Human Resources Development", co-financed by the European Social Fund of the European Union – key expert

OP "Environment" / Consortium "Natura Bulgaria" E- 30-38 / 21.03.2011-25.03.2013 "Mapping and determine the conservation status of habitats and species - Phase I". Team Leader - Lot 6 "Mapping and determine the conservation status of vascular plants, mosses and natural habitats"

OP "Human Resources Development / Project "Student practices "- 11.01.2013 / 31.10.2014- academic mentor of 10 trainees.

### **Bilateral**

Bulgarian National Scientific Fund/France/2005 – 2007 “Estimation of dynamics of structure and functions of Chestnut communities (*Castanea sativa* Mill.) – Belasica in condition of global climatic changes”. Institute of Biodiversity and Ecosystem Investigations, BAS – consultant.

Bulgarian National Scientific Fund/France/2005 – 2007 “Plant biomonitoring of pollutants O<sub>3</sub>, NO<sub>x</sub> и SO<sub>2</sub> in natural and urban environment. Initial studies in Bulgaria and comparison with the situation in France”. Institute of Biodiversity and Ecosystem Investigations, BAS – consultant.

Institute of Botany and Mycology, BAS/University of Sofia/Sweden, Lund University/IMES/1997-2001/IEDA PROJECT: Integrated environmental diagnosis and assessment: Ecological systems at risk in Bulgaria - Montane and coastal forest communities – consultant.

Bulgarian National Scientific Fund/ Ministry of regional development, Bourgas Municipality/1992-1996 “The complex investigations about the structure and functions of the xerophytes /forest/ ecosystems in Bulgaria” – expert.

University of Sofia, Faculty of Biology, Department of Ecology/ Ministry of regional development , Etropole Municipality/1992-1994 “The complex ecological and nature-protection investigation about biotopes and biocoenoses of natural and agricultural ecosystems in the region of Etropole district”. Manager: R. Doichev, SU – expert.

### **National**

Bulgarian National Scientific Fund /ДДВУ0253/20.12.2010/2010-2013 “Role of the underground plant mass in the annual fixation of CO<sub>2</sub> from forest ecosystems of main tree species in Bulgaria”. Forest University, Sofia – – consultant.

Bulgarian National Scientific Fund/№ДК07ПП02/21/2010-14 - „Application of information technologies for modelling of forest ecosystems as an approach for the development of dynamic global vegetation models” – Team leader [www.e-ecology.org](http://www.e-ecology.org)

Bulgarian National Scientific Fund/YS-BG/12.07/2002-2006, № 2354 “Phytocoenological investigations in reserve “Kamenshtiza”, Central Balkan Mountain”, Department of Ecology and EP, SU – consultant.

Bulgarian National Scientific Fund/YS-BG/ 2007-2008 “Research on environmental characteristics of chestnut forests for use as a model for multifunctional forest management”, University of Forestry, Sofia - consultant

Bulgarian National Scientific Fund/ № BY- AH- 4 /2005-2009 “Dendroclimatic Analysis for Changes of Air Temperature and Precipitation in South-Western Bulgaria”. University of Forestry, Sofia – key expert.

### **Institutional**

Scientific Fund of Faculty of Biology, Sofia University –132/04.2014 – Dendrochronological studies of oak forests in SCI "Zapadna Stara Planina i Predbalkan" – leader.

Scientific Fund of Faculty of Biology, Sofia University - №21/15.04.2013 - Functional researches of xerothermic oak ecosystems in SCI “Zapadna Stara Planina i Predbalkan” - leader.

Scientific Fund of Sofia University - N025/2009 "Investigations about connection between production and energetical level of water state in *Zea mays* L. Agro ecosystem at the conditions of "Dragalevtzi" Study – Experimental Base" - leader.

PUDOOS/2006-2008: Red Book of Bulgaria, t. 3 – Nature habitats – expert.

Scientific Fund of Faculty of Biology, Sofia University - №351/2001-2002/№ 3356 "Ecological assessment of the *Juniperus excelsa* L. state in "Tisata" Reserve and the influenced factors on the species decline" – key expert.

Scientific Fund of Faculty of Biology, Sofia University - 2001/2002 "Investigations about biological active substance in the *Chenopodium botrys* phytomass and ecological factors" – key expert.

Scientific Fund of Faculty of Biology, Sofia University - 358/2001-2002(N3360) "Ecological assessment of *Piceeta excelsa* L. formation state and the influence factors on the Norway spruce decline in the "Tchuprene" Biosphere Reserve, Western Balkan Mountains" – Leader.