

## CURRICULUM VITAE

### ELENCO DEI TITOLI E DELLE PUBBLICAZIONI DEL CANDIDATO

Il sottoscritto/a,

COGNOME: Gjoni NOME: Vojsava

ai sensi degli art.46 e 47 DPR 445/2000, consapevole delle sanzioni penali previste dall'art.76 del DPR 445/2000 e successive modificazioni ed integrazioni per le ipotesi di falsità in atti e dichiarazioni mendaci, dichiara sotto la propria responsabilità di essere in possesso dei seguenti titoli e di essere autore/coautore delle seguenti pubblicazioni:

#### TITOLI:

- a) dottorato di ricerca o equipollente conseguito in Italia o all'estero ovvero diploma di specializzazione medica o equivalente esclusivamente per le procedure di area medica:

*Dottorato di Ricerca in Ecologia e Cambiamenti Climatici - Università del Salento, Lecce, Italia*

- b) attività didattica a livello universitario in Italia o all'estero:

- 1. Specialized course in Theoretical Ecology (Post-Graduate course in Informatic, Ionian University, Corfu, Greece), May 2018.*
- 2. Specialized course in Theoretical Ecology (Post-Graduate course in Informatic, Ionian University, Corfu, Greece), June 2019.*
- 3. Specialized course in Theoretical Ecology (Post-Graduate course in Informatic, Ionian University, Corfu, Greece), June 2020.*
- 4. Specialized course in Theoretical Ecology (Post-Graduate course in Informatic, Ionian University, Corfu, Greece), June 2021.*
- 5. Post-graduate course in Ecology and Biodiversity (University of Salento), 2019-2020.*
- 6. Post-graduate course in Ecology and Biodiversity (University of Salento), 2019-2020 (Laboratory classes).*
- 7. Master course in Ecology and Biodiversity (University of Salento), 2018-2019.*
- 8. Master in Ecology and Biodiversity (University of Salento), 2018-2019 (Laboratory classes).*

- c) attività di formazione o di ricerca presso qualificati istituti italiani o stranieri:

- 1. 01/09/21-present: Visiting researcher - University of Zurich, Zurich, Switzerland  
Supervisor: Owen Petchey*
- 2. 01/10/21-30/8/2021: Post-doctoral researcher - Ionian University, Corfu, Greece  
Supervisor: Markos Avlonitis*
- 3. 01/02/20-30/09/20: Visiting researcher - University of Geneva, Geneva, Switzerland  
Supervisor: Bastiaan Ibelings*
- 4. 18/09/18-20/12/18: Visiting researcher - Juniata College, Huntingdon, US  
Supervisor: Douglas Glazier*
- 5. 23/03/18-26/06/18: Research Visiting - Juniata College, Huntingdon, US  
Supervisor: Douglas Glazier*
- 6. 22/07/16-30/09/20: Post-doctoral researcher - University of Salento, Lecce, Italy  
Supervisor: Alberto Basset*
- 7. 03/04/13-22/07/16: Ph.D. student - University of Salento, Lecce, Italy  
Supervisor: Alberto Basset*
- 8. 03/05/12-04/12/13: Research Fellowship -University of Ionian Islands, Corfu, Greece  
Supervisor: Markos Avlonitis*
- 9. 02/06/11-03/12/11: Research Fellowship - Ionian University, Corfu, Greece  
Supervisor: Georgios Papaioannou*

d) attività in campo clinico (relativamente ai settori concorsuali nei quali sono richieste tali specifiche competenze):

*spazio riservato alla descrizione dell'attività*

e) realizzazione di attività progettuale (relativamente ai settori concorsuali nei quali è prevista);

1. *European project "BEST" between Italy and Greece a collaboration among Universities, Regions and Municipalities (INTERREG): Addressing joint Agro- and Aqua- Biodiversity pressures Enhancing Sustainable Rural Development*
2. *European HORIZON 2020 ENVRplus project, a collaboration between 26 research institutions in Europe: Environmental Research Infrastructures Providing Shared Solutions for Science and Society*
3. *European project "BIG" between Italy and Greece a collaboration among Universities, Regions and Municipalities (INTERREG): Improving governance, management and sustainability of rural and coastal protected areas and contributing to the implementation of the Natura 2000*
4. *European project "Magna Grecia Mare" between Italy and Greece a collaboration among Universities, Regions and Municipalities (INTERREG): Socio-economic and cultural desertification of small fishing communities, by developing a model that will preserve and promote the knowledge and flavors of coastal cultural heritage for tourist purposes*
5. *European project called "ANDROLIVE" between Italian and Greek Universities, Regions and Municipalities (IPA): The Adriatic olive grove: Risks reduction, sustainability, and learning*
6. *European project called "e-OLIVE" between Albania and Greece Universities, Regions and Municipalities (IPA): Enhancing Olive Oil Production with the use of innovative*
7. *European project called "AOGRPSL" between IT-SI-EL-HR-BA-ME-AL-RS Universities, Regions and Municipalities (IPA): The Adriatic olive-grove: Risk prevention, sustainability, learning*

f) organizzazione, direzione e coordinamento di gruppi di ricerca nazionali e internazionali, o partecipazione agli stessi:

1. *2021 PI of the research project Swiss National Research Foundation - University of Zurich, Zurich, Switzerland: The body size-abundance relationship describes the relationship between species' mean body mass and their density in a community. Across biological communities, this relationship is assumed to have a relatively consistent slope. This is thought to be a consequence of simple size-dependent metabolic constraints on organisms' energy use. However, metabolism changes in response to biotic and abiotic factors, which should result in variation in the size-abundance relationship. These deviations from the simple metabolism-based predictions are still unexplored, with the consequence that our understanding of basic ecological mechanisms is incomplete and predictions are potentially biased. My project will combine ecological theory with experimental observations, to develop models that describe how the size-abundance scaling of microbial communities is driven by biodiversity (species richness and composition) across temperature and through time.*
2. *2020 PI of the research project with Swiss National Research Foundation - University of Geneva, Geneva, Switzerland: Cross community-scaling relationship (CCSR) is one of the four size- density relationships, which exist in macro-ecology and describe negative relationships between the average body size of the individuals in spatially or temporally distinct community and the total number of the individuals in that community. CCSRs represent a potential method in ecology for describing community structure and the underlying processes at spatiotemporal scales. CCSRs give insights into both the mechanisms of community organization and ecosystem level properties, being potentially integrative indicators of the effect of the environmental stressors on community structure. In this proposal we aim to (i) describe CCSRs in phytoplankton communities of European lakes and specifically their shape and consistency with (or deviation from) metabolic scaling theory, (ii) analyze patterns of CCSR variability within and among a large set of lakes, reflecting large scale gradients in temperature, latitude and depth, (iii) evaluate the effect of potential ecosystem drivers (i.e. temperature, oxygen, nutrients etc.) that are known to influence the body size and/or density of phytoplankton communities and therefore CCSR patterns.*
3. *2018-19 PI of the project with Italian Society of Ecology - Juniata College, Department of Biology - Ecology, Huntingdon (USA): The proposed research is considered as a basic understanding of temperature effects on metabolism, the pacemaker of life, in realistic ecological contexts. It will be the*

first to examine (1) how metabolic rate and its scaling with body mass vary with temperature in relation to different predation regimes, and (2) both adaptive and phenotypic plastic responses of metabolic rate and its scaling with body mass to temperature and predators. The research will provide valuable insight into how global warming affects organisms that play important roles in aquatic ecosystems that impact on human well being. In order to prevent these impacts, we can take actions to prevent climate change - also known as mitigation. In order to prevent though, it is important to understand which is the effect of the climate changes and the communities that are more vulnerable and less adaptable to changes.

5. *Participation as a (co)supervisor at the thesis of bachelor's degree, master's degree and Ph.D. students, during my Ph.D and Postdoc at the University of Salento with the following titles:*

- i. Temperature and salinity affect benthic communities in freshwater, transitional water and marine ecosystems in Aegean Sea (Bachelor students: Styliani Samartzi, Giorgos Symianakis)
- ii. Energetic constraints to colonization of transitional waters by benthic macroinvertebrates: patterns and decoding mechanisms (Ph.D. student: Mario Ciotti)
- iii. Understanding effects of temperature on the size and pace of life of organisms in realistic ecological contexts (Bachelor students: Elisa Cannone, Shaina Robinett)
- iv. The niche concept revisited: a new attempt for the classification of TW ecosystems across their abiotic drivers (Master student: Emanuele Astoricchio)
- v. The effect of the temperature and the salinity on decomposition processes in freshwater transitional water and marine ecosystems in Aegean Sea (Bachelor students: Konstantikos Kitilis)
- vi. Metabolic patterns from freshwater to marine gammarids of Salento coastal ecosystems (Master student: Mario Ciotti)
- vii. A new attempt for the classification of TW ecosystems (Bachelor student: Emanuele Astoricchio)

g) titolarità di brevetti (relativamente ai settori concorsuali nei quali è prevista):

*PADI Open Water, Volos, Greece*

1. First scuba certification level
2. Second scuba certification level
3. Third scuba certification level
4. Advanced scuba certification level

*Yacht Captain's License IO. B.A. Thalassis, Volos, Greece*

1. First Yacht Captain's certificate level

h) relatore a congressi e convegni nazionali e internazionali:

**Oral Presentations**

*2020 Macroinvertebrate production in Mediterranean and Black Sea Lagoons. 9th European coastal lagoons symposium. Venice, Italy.*

*2020 Relative importance of transitional water freshwater and marine species: The case of Mediterranean Sea Lagoons. 9th European coastal lagoons symposium. Venice, Italy.*

*2019 ENVRI Environmental Science serious game for High School students. EGU General Assembly. Vienna, Austria.*

*2016 Ecological significance of cross-community scaling relationships in Mediterranean lagoons. 7th European coastal lagoons symposium. Murcia, Spain.*

*2016 Towards a definition of transitional water taxonomy: a global scale analysis of the niche of transitional water types. Littoral 2016. Biarritz, France.*

*2015 Ecological implication of cross community scaling relationship variation. 13th International Congress on the Zoography, Ecology and Evolution of Greece and Adjacent regions. Crete, Greece*

*2015 Cross-community scaling of macroinvertebrates – study case: Corfu Island. 6th Ph.D. conference in Ecology and Environmental Science. Rome, Italy*

*2014 Size patterns of macroinvertebrate guilds in Mediterranean lagoons in -abundance relationships. 5th Ph.D. conference in Ecology and Environmental Science. Palermo, Italy*

*2014 Cross-community scaling of benthic macroinvertebrate guilds: a functional approach to community organization in inland waters of Southern Italy. International Congress in Biodiversity and Wetlands. El Tarf, Algeria.*

*2014 A cross-community approach to energy pathways across lagoon macroinvertebrate guilds. 14th Congress of Italian Ecological Society, Ferrara, Italy*

2013 Biogeographical patterns of phytoplankton diversity hierarchy in lagoon ecosystems. VI EUROLAG Conference - "Coastal Lagoon Domain and Properties: from fundamental research to policy implementation". Lecce, Italy

2013 Coastal Lagoon domain and properties: from fundamental research to policy implementation. 6th EUROLAG Conference - "Coastal Lagoon Domain and Properties: from fundamental research to policy implementation". Lecce, Italy

2010 Global Fisheries Production of Marine Mammals. 32nd Biologist's Congress of Greece. Karpenissi, Greece

#### **Poster Presentations**

2019 Phenotypic plasticity of metabolic scaling: responses of crustaceans to temperature and predator cues in spring and lagoon ecosystems. 15th EEF and 18th SPECO. Lisbon, Portugal.

2015 Cross community scaling of macroinvertebrate guilds: decoding deviation from metabolic expectation into potential mechanism. 13th EEF and 25th SIIE. Ecology at the interface. Rome, Italy.

#### **i) premi e riconoscimenti nazionali e internazionali per attività di ricerca:**

1. 2021 Invited Speaker - Satellite meeting is "Why and how does metabolic rate scale with body size?" SEB conference on 5-8 July 2022, Montpellier, France (1000 EUR)

2. 2021 Best research project proposal in Ecology 2021 from Swiss National Research Foundation - University of Zurich, Zurich, Switzerland (18,000 CHF)

3. 2019 Best research project proposal in Ecology 2019 from Swiss National Research Foundation - University of Geneva, Geneva, Switzerland (24,000 CHF)

4. 2018 Best research project proposal in Ecology 2018 (Premio Luigi e Francesca Brusarosco) from Italian Society of Ecology - Juniata College, Department of Biology - Ecology, Huntingdon (USA)

5. 2018 Poster award by Ecography Journal - 15th Conference of European Ecological Federation, Lisbon, Portugal (200 EUR)

#### **j) diploma di specializzazione europea riconosciuto da Board internazionali (relativamente a quei settori concorsuali nei quali è prevista)**

02/09/08-03/12/10 Mater Degree in Ecotoxicology - University of Thessaly, Volos, Greece

Title: The reaction of the bio-indicator acetylcholinesterase (ACHE) as a tool for the biomonitoring in coastal Greece

### **PUBBLICAZIONI SCIENTIFICHE<sup>1</sup>**

#### **Publications**

1) Shokri M., Cozzoli F., Ciotti M., **Gjoni V.**, Marrocco V., et al. (2021). A new approach to assessing the space use behaviour of macroinvertebrates by automated video tracking. *Methods in Ecology and Evolution*, 11, 3004-3014.

2) Glazier D., Gring J., Holsopple J., **Gjoni V.** (2020). Temperature effects on metabolic scaling of a keystone freshwater crustacean depend on fish-predation regime. *Journal of Experimental Biology*, 223, 21.

3) Cozzoli F., Shokri M., Ciotti M., **Gjoni V.**, Marocco V., Basset A., (2020). Relationship between individual metabolic rate and patch departure behaviour: evidence from aquatic gastropods. *Oikos*, 129, 1657-1667.

4) **Gjoni V.**, Glazier D., Basset A. (2020). Temperature and predator cues interactively affect ontogenetic metabolic scaling of aquatic amphipods. *Biology Letters*, 16, 20200267.

5) Cozzoli F., M., Hu Z., **Gjoni V.**, Ysebaert T., Herman P. M., Bouma T. J. (2020). Biological and physical factors in bio-mediating in sediment resuspension: a fume study on *Cerastoderma edulis*. *Estuarine, Coastal and Shelf Science*, 106824.

6) **Gjoni V.**, Glazier D. S. (2020). A perspective on body size and abundance relationships across ecological communities. *Biology*, 9, 42.

- 7) **Gjoni V.**, Ghinis S., Mazzotta L., Pinna M., Marini G., Rosati I., et al. (2019). Patterns of functional diversity on macroinvertebrate guilds across three aquatic ecosystem types, NE Mediterranean. *Mediterranean Marine Science*, 20, 703-717.
- 8) Cozzoli F., **Gjoni V.**, & Basset A. (2019). Size dependency of patch departure behaviour: evidence from granivorous rodents. *Ecology*, e02800.
- 9) Cozzoli F., **Gjoni V.**, Del Pasqua M., Hu, Z., Ysebaert T. (2019). A process-based model of cohesive sediment resuspension under bioturbators' influence. *Science of the Total Environment*, 670, 18-30.
- 10) **Gjoni V.**, & Basset A. (2018). A cross-community approach to energy pathways across lagoon macroinvertebrate guilds. *Estuaries and Coasts*, 40, 1142–1158.
- 11) Shokri M., Ciotti M., Vignes F., **Gjoni V.**, & Basset A. 2018. Components of standard metabolic rate variability in three species of Gammarids. *WebEcology*, 19, 1-13.
- 12) Sangiorgio F., **Gjoni V.**, Fiore N., Tarantino D., Basset A. (2017). An international online Competition to stimulate student's interest On Ecological Issues. *SciRes*, 7, 35-42.
- 13) Boggero A., Ruoco M., Shokri M., **Gjoni V.**, et al. (2017). *Chironomus (Chironomus) Aprilinus* Meigen, 1818 (Diptera Chironomidae), First Record from Italy: Introduction cytotaxonomy and ecology. *Redia*, 100, 11-1.
- 14) **Gjoni V.**, Cozzoli F., Basset A. (2016). Size-density relationships: a cross-community approach in benthic macroinvertebrate of Mediterranean and Black Sea lagoons. *Estuaries and Coasts*, 40, 1142–1158.
- 15) Roselli L., Stanca E., Ludovisi A., Durante G., Souza J.S.D., Dural M., Alp T., Bulent S., **Gjoni V.** et al. (2013). Multi-scale biodiversity patterns in phytoplankton from coastal lagoons: Eastern Mediterranean Sea. *Transitional Waters Bulletin*. 7, 202-219.

#### **Book Chapter**

- 1) *The Ecological Integrity of Springs Ecosystems: A Global Review*, 4th volume of the *Encyclopedia of the World's Biomes 2021*, edited by Dr. Lowell Suring. Subchapters: 1. Swiss Spings (Authors: Marle P. and **Gjoni V.**) and 2. Greek Springs (Aurthors: Mentzafou E., Karaouzas I. and **Gjoni V.**) (In press)

#### **Books**

- 1) Ghinis S., Gjoni V., Tzafesta E., Ghinis S. (2021). *The dragonflies of Corfu*, Corfu Press, Corfu, Greece. (In press)
- 2) Ghinis S., Gjoni V., Ghinis S. (2013). *The butterflies of Corfu*. Corfu Press, Corfu, Greece.

#### **Under Submission Publications**

- 1) **Gjoni V.**, Glazier D., Ibelings B., Thomas M. Temperature, resource interact to shape size-abundance relationship on phytoplankton communities. *Ecology* (Under review).
- 2) **Gjoni V.**, Marle P., Timoner P., Castella E. Size and abundance relationships of freshwater macroinvertebrates: looking for patterns in two floodplain channels of a large river. *Waters journal*. (Under review).

### CONSISTENZA COMPLESSIVA DELLA PRODUZIONE SCIENTIFICA<sup>ii</sup>

*Vojsava Gjoni study how abiotic and biotic environment effect ecological communities; the goal of her research is to develop an ecological tool with which to enhance our understanding of environmental factors mediating the response of populations and communities to global changes. My work has led to 16 publications (2 under submission) and 2 books in leading peer-reviewed journals, including Ecology, Biology, Biology Letters, Journal of Experimental Biology and Science of Total Environmental.*

*Vojsava Gjoni graduated as a Master Student from the University of Thessaly with a thesis in Ecotoxicology using the bio-indicator tool for the bio monitoring in coastal Greece. She carried out her doctoral research in ecology and climate changes at University of Salento, using size-abundance relationship as a comparative analysis among animal communities and aquatic ecosystems across climatic and bio-geographical regions. During her visit at the University of Geneva and actually at the University of Zurich she is developing CCSR model as an ecological tool to enhance our understanding of environmental factors mediating the response of populations and communities to global changes. She performed experiments based on the metabolic theory in ecology (MTE) during her visit in Juniata*

*College. Her research is focused in how is climate change (global warming) affecting the body sizes and organisms' pace of life (rates of biological processes), which have vital effects on the functioning of ecosystems that provide essential services to humans. She currently holds a post-doctoral position at the University of Salento, where mainly deals with the study on the CCSR model in aquatic ecosystems and the MTE in the transitional water ecosystems in Italy, involving bachelor and master students. In the meanwhile, she coordinates the ENVRIplus project, which is based on providing key tools for the researchers to address specific challenges, as climate changes. Particularly, she deals with the integration with the socio-economic providing useful elements to policy makers, as well as citizen science integrating the scientific knowledge in the society.*

Data. 24/10/2021

Firma



<sup>i</sup> Si precisa che qualora il bando preveda un limite massimo di pubblicazioni, il candidato non potrà elencare un numero di pubblicazioni superiore al predetto limite.

<sup>ii</sup> Le ulteriori pubblicazioni potranno essere indicate nello spazio relativo alla "Consistenza complessiva della produzione scientifica".

**Informativa ai sensi dell'art. 13 del Regolamento (UE) 679/2016 recante norme sul trattamento dei dati personali.**

I dati raccolti con il presente modulo sono trattati ai fini del procedimento per il quale vengono rilasciati e verranno utilizzati esclusivamente per tale scopo e comunque nell'ambito delle attività istituzionali dell'Università degli Studi di Napoli Federico II. Titolare del trattamento è l'Università, nelle persone del Rettore e del Direttore Generale, in relazione alle specifiche competenze. Esclusivamente per problematiche inerenti ad un trattamento non conforme ai propri dati personali, è possibile contattare il Titolare inviando una email al seguente indirizzo: [ateneo@pec.unina.it](mailto:ateneo@pec.unina.it); oppure al Responsabile della Protezione dei Dati: [rpd@unina.it](mailto:rpd@unina.it); PEC: [rpd@pec.unina.it](mailto:rpd@pec.unina.it). Per qualsiasi altra istanza relativa al procedimento in questione deve essere contattato invece l'Ufficio Concorsi Personale Docente e Ricercatore inviando una mail al seguente indirizzo: [uff.concorsi-pdr@pec.unina.it](mailto:uff.concorsi-pdr@pec.unina.it). Agli interessati competono i diritti di cui agli artt. 15-22 del Regolamento UE. Le informazioni complete, relative al trattamento dei dati personali raccolti, sono riportate sul sito dell'Ateneo: <http://www.unina.it/ateneo/statuto-e-normativa/privacy>.