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| PERSONAL INFORMATION | **Jacopo Iaria** |
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| Immagine che contiene persona, vestiti, aria aperta, pianta  Descrizione generata automaticamente  |  Via dei Lucilii 16, Rome, 00122, Italy  |
|  +39 3771854511  |
| jacopo.iaria@gmail.com[linkedin.com/in/jacopo-iaria-7081a222a](https://www.linkedin.com/in/jacopo-iaria-7081a222a) |
| Sex Male | Date of birth 17/06/1997 | Nationality Italian  |

Master's graduate in environmental monitoring and requalification with honors and currently working as a research fellow for *Alma mater Studiorum*, University of Bologna. I’m specialized in the analysis of environmental data, for example, I worked with structural traits of vegetation, urban microclimate simulations and species distribution from a multi-taxonimic monitoring. My educational and working background allowed me to become proficient with the use of data analysis programming language (R) and GIS software for various environmental applications. I'm currently working as a PhD student on protected areas and biodiversity.

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| WORK EXPERIENCE |   |

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| 1 March 2023 | PhD studentAlma Mater Studiorum - University of BolognaPhD student in macroecology under supervision of Prof Roberto Cazzolla Gatti and Prof. Alessandro Chiarucci* Organization and management of the ECODIPA-net collaborative project (https://site.unibo.it/ecodipa-net/it/ecodipa), a project based on ecological dynamics inside protected areas. my task includes:

- Creation and management of a network of national experts in vegetation studies - Web site creation and management- Data gathering from the experts and standardization- Data management- Fieldwork (i.e., resurvey of vegetation) - Systematic literature review on the analytical methods- Supervision of a master's and a bachelor thesis on the topic* Frontal lessons to master's students (16 hours) on the use of R for the analysis of biodiversity data
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| 1 June 2022  | Research fellow Alma Mater Studiorum - University of BolognaData analisys of bio-monitoring in Val D'agri (Basilicata, Italy)* Preparation of sampling design for the multi-taxonomic monitoring of the Val D'Agri area according to ecological representativity of the territory and research related questions (i.e., if extractive activities have an impact on biodiversity inside the study area)
* Management of monitoring results and datasets creation
* Content creation (i.e., maps, graphs and descriptive statistics) for the reports on the state of biodiversity in the Val D'Agri area
* Further statistical analyses finalized to scientific publications on the findings
* Field training on basic trapping techniques for insects (carabids) and terrestrial micromammals.
* Field training on the identification and sampling of lichens suitable for chemical analyses on heavy metal and VOC.
* Student assistance (i.e., supervision of a master's thesis about Italian protected areas using QGIS and R)
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| May-2020 | University laboratory activity: Geochemistry lab (II) |
| Sapienza university of Rome (12 hours) |
| * Water and soil field sampling
* Sample preparation for ion chromatography and ICP-MS analysis
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| Jan-2020 | University laboratory activity: Field monitoring of alien and invasive species |
| Sapienza university of Rome |
| * Field monitoring in urban, semi-natural and natural environment of alien and invasive species with sample retrieving
 |
| Nov-2019 | University laboratory activity: Analytical chemistry lab |
| Sapienza university of Rome (12 hours) |
| * Sample preparation
* Use of pH meter, HPLC, gas chromatography
* Data quality assessment
 |
| Nov-2019 | University laboratory activity: Applied ecology lab |
| Sapienza university of Rome (12 hours) |
| * Growth chambers
* Measure of gas exchange using CIRAS 2
* Measure of fluorescence of *a*-chlorophyll and pigment content
 |
| Nov-2019 | University laboratory activity: Environmental alteration's biomarker lab |
| Sapienza university of Rome (12 hours) |
| * Sample preparation for PCR
* Results analysis and data quality assessment
 |
| Oct-2019 | University laboratory activity: geomorphological survey |
| Sapienza university of Rome |
| * Field monitoring in semi-natural and natural remote environment of geomorphological features
* detection of early-stage geomorphological related risk with particular concern about erosive and landslide phenomena
* Redaction of geomorphological map
 |
| Nov-2018 | University laboratory activity: geochemistry lab (I) |
|  | Sapienza university of Rome (12 hours) |
|  | * Water sampling in semi-natural and natural environment
* Use of probes for the detection of pH, temperature and electrolyte content
 |
| Jun-2018 | University laboratory activity: collaboration in master's thesis experimental activity (in applied ecology)  |
|  | Sapienza university of Rome (50 hours) |
|  | * active participation in drafting the experimental design
* Sample plants preparation and placement in growth chambers
* Measure of gas exchange using CIRAS 2
* Measure of fluorescence of *a*-chlorophyll and pigment content
* Simple data analysis
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| May-2018 | University laboratory activity: taxonomic survey |
|  | Sapienza university of Rome |
|  | * Plants sample retrieving in semi-natural and natural remote environment
* Redaction of an herbarium
 |
| May-2018 | University laboratory activity: geological survey |
|  | Sapienza university of Rome |
|  | * Geological and stratigraphic survey in mountain environment
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| 2-3/11/2019 5-6/10/201910/11/2018 27-28/10/20183-4/06/2017 | Collaborator |
|  | Italian Federation of Judo Karate Martial Arts. Via dei Sandolini*, 79. 00122 Roma* |
|  | * Assistance in competitions and tournaments organization
* Security service
* Customer and athlete assistance
 |
|  Jul-Aug 2016  Jul-Aug 2014Jul-Aug 2015 | Unpaid apprenticeship |
|  | Plant nursery Primaverde srl. Piazza Ronca, 1 00122 Roma |
|  | * Plants maintenance and care
* Staging sales areas
* Customer relations
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| EDUCATION AND TRAINING |   |

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| 20-24/5/2024 | EarthBridge World Environment Day and International Synthesis Project: Collaborative Research at Krkonoše National ParkUniversity of Bonn; Czech university of life science; university of Bologna; Technische universitat Dresden* Interdisciplinary, international syntasis project on  Krkonoše National Park focused at developing a research paper and networking. https://earthbridge.eu/international-synthesis-project-collaborative-research-at-krkonose-national-park/
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| 9/4/2024 | The research and the art of telling it University of Bologna PhD. course* Preparing for public speaking with different audience, how to structure a presentation in relation to the objective, audience, venue and duration
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| 27/10/23 | Career management skills for PhDUniversity of Bologna PhD. course |
| 25-28/09/2023 | Scientific communication and publishing in English University of Bologna Prof. Gabor L. Lovei * Current structure of scientific literature, basics of scientometrics, main features of the scientific information ‘industry’, how to decide where to publish
* The different parts of a primary scientific paper and how to write them
* The publication process (manuscript preparation, submission, dealing with editors, technical editing and printing)
* Requirements of grammar and style
* Principles of preparing figures and tables
* Oral presentations: preparation and delivery, poster preparation, conference participation - Writing funding applications
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| 10/3/2023 | Peer Review excellence IOP training and certificationIOP publishing* Conduct a peer review
* Ethics in peer review and publishing
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| A.A. 2019/2020- 2020/2021  |  |
| Master’s degree in environmental monitoring and requalification with final score of 110 with honors / 110Sapienza University of Rome, Faculty of Mathematical, Physical and Natural Sciences |
| * Study of the biotic and abiotic components of ecosystems, on chemical, biological, ecological and geochemical processes of environmental interest, on data analysis methodologies and, finally, aspects relating to monitoring, control and management of the environment and the territory. Deepening in the use of spatial analysis software (Qgis, SNAP) and statistics (Microsoft Excel; R-Studio).
* Experimental thesis in collaboration with ENEA (national agency for new technologies, energy and sustainable development) with title: Development of predictive indices of urban heat island mitigation through green envelope solutions. Use of hierarchical analytical processes built using ENVI-met modeling. This is a study where I developed mathematical relationships, based on the results of the ENVI-met microclimatic software, capable of predicting the reduction of air temperature in an urban environment using green roofs and green walls. I acquired and improved my knowledge about the use of software: ENVI-met; Excel, R programming language and Qgis.
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| A.A. 2016/2017 - 2018/2019  |  |
| Bachelor's degree in Environmental sciences with final score of 110 with honors / 110Sapienza University of Rome, Faculty of Mathematical, Physical and Natural Sciences |
| * Basic disciplines and specialist insights into the mathematical, chemical, biological, physical, environmental chemistry, environmental law and legislation, analysis of complex ecosystem problems and assessment of anthropogenic impacts.
* Educational activity in Ecology: ecology laboratory, Leaf Area Index measurements in the field using Li-COR LAI 2000 and 2200.
* Educational activity: ESRI arcGIS basic course, the role of GIS as a support for environmental sciences
* Training activity in information literacy: insights in library organization, volume research and cataloguing
* Final test with experimental work entitled: "Leaf Area Index (LAI) and Regulatory ecosystem services: comparison of LAI data obtained from field measurements and satellite images for the site of the Presidential Estate of Castel Porziano (Rome)". This is a study for the validation of Sentinel2 remote sensed LAI data by comparison with field measurements in the Castel Porziano natural reserve near Rome. My tasks consisted in plan the sampling campaign; adapt the existing measuring methodology to the specific site conditions and interfacing with the staff of the reserve. As well as analyze the retrieved data, write and deliver reports. In this study I acquired basic knowledge in the use of the fv2200, SNAP, Qgis and R-studio software.
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| A.S. 2011/2012 - 2015/2016  |  |
| Scientific High School Diploma with final score of 94/100Federigo Enriques scientific high school, Rome |
| * Italian language and literature
* English language and literature
* Latin language and literature
* Geography and history
* Philosophy
* Mathematics
* Natural sciences
* Physics
* Drawing and history of arts
* P.E.
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| PERSONAL SKILLS |   |

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| Mother tongue(s) | Italian |
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| Other language(s) | UNDERSTANDING  | SPEAKING  | WRITING  |
| Listening  | Reading  | Spoken interaction  | Spoken production  |  |
| English | B2 | B2 | B2 | B2 | B2 |
|  | Cambridge FCE |
|  | Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user[Common European Framework of Reference for Languages](http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr) |

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| Communication skills | * I have a high ability to work in a team and I find it both pleasant and stimulating as I'm able to develop working collaborations and personal relations with my colleagues, learn from them and be able to contribute with my own ideas toward the most effective way to reach a goal. For example, during the job as research fellow I was able to efficiently coordinate with my colleagues in sharing information and product to quickly and precisely assembling scientific-sound reports. Such skills derive from both experiences in school and university, and from my early work experiences, which proved incredibly valuable in team-building abilities. Moreover, I have refined my attitude to teamwork since young age through the sport of volleyball and scouting activity in which I used to be the coordinator of my squad.
* I am able to work independently. Not only it was a requirement for the job as fellow researcher but it's a skill I learned and polished during the writing of both my bachelor and my master's thesis since the greatest amount of bibliographic research, methodology implementation, data analysis and result presentation was conducted unassisted.
* I like travelling abroad because of the confrontation with different cultures as I ascertained in several trips, including educational ones, in a multicultural environment.
* During the pandemic, I acquired excellent dexterity with the main video conferencing programs (e.g., Google Meet; Zoom; Microsoft Teams).
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| Organisational / managerial skills | * I was part of the organizing committe of EU Horizon Europe EarthBridge conference in Bologna 26-28 June 2023. my mansion were to communicate with international guests and deal with network issues.
* In the various group work in the university field, I have often taken on the role of group coordinator; agreeing on objectives and deadlines with the professors and coordinating the members on tasks and organization of the documents produced, even working in remote. I used similar organization and coordination effort in my actual job when cooperating in the production of the reports.
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| Digital skills | SELF-ASSESSMENT |
| Information processing | Communication | Content creation | Safety | Problem solving |
|  | Proficient user | Independent user | Independent user | Basic user | Independent user |
|  | Levels: Basic user - Independent user - Proficient user[Digital competences - Self-assessment grid](http://europass.cedefop.europa.eu/en/resources/digital-competences)  |
|  | * Excellent knowledge and proficiency of the Office suit, especially MS Excel, MS Word, and MS Power point.
* Proficent user of the geographic information program QGIS as well as basic user of arcGIS
* Proficient user of R statistical programming language.
* Basic user in Google earth engine
* Basic user on satellite processing program Sentinel Application Platform SNAP.
* Basic user of Bash shell scripting, awk language, Python and their application in the environmental studies such as remote sensing studies and environmental data management.
* Proficient user of the ENVI-met suite for urban microclimatic simulations, basic user in python scripting for ENVI-met related task.
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| Other skills | * Operator of Li-COR LAI2000 and 2200 instrument for the detection of the Leaf Area Index in the field and the relative analysis software fv2200.
* Good drummer, I played in several band, in the university orchestra and in the local theatre orchestra in Ostia (Rome).
* Draw and paint in manga style and watercolor.
* Decent cook, now able to make desserts.
* Amateur modelist, especially military aircraft and tank replica.
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| Driving license | European driving license B |

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| ADDITIONAL INFORMATION |   |

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| ConferencesCertifications | * National Biodiversity Future Center PhD days conference in Padova, 2nd edition 3-5/6/2024
* Organizing Committee, ECCB conservation biology international Conference, Bologna 17-21 June 2024.
* National Biodiversity Future Center PhD days conference in Padova 31/5-1/6/2023
* Organizing Committee, EU Horizon Europe EarthBridge Conference, Bologna 26-28 June 2023.
* Attendance of the conference 'Challenging conservation, adattarsi al cambiamento' of the Italian society for conservation biology, 19-21/4/2023.
* Susca, T., Iaria, J. Parametric analysis of green roof- and wall-mitigation-scenarios via ENVI-met and AHP: the effect of building height, coverage percentage, and LAI. ICUC11. September 1st 2023, Sydney, Australia
* Presenter at ENEA (Italian national agency for new technologies, energy and sustainable development) Seminar on urban heat island mitigation strategies research advancements: presenting my master's thesis Development of predictive indices of urban heat island mitigation through green envelope solutions. Use of hierarchical analytical processes built using ENVI-met modelling, December 2021
* Open badge on Security on the workplace, low risk
* Open badge on Security on the workplace, general course
* Certificate of attendance of a basic training course in Sustainability Sciences.
* Certificate of attendance of a specialized training course in Sustainability Sciences for the Faculty of Mathematical, Physical and Natural Sciences
* Cambridge First Certificate in English (FCE)
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| Pubblications | * Iaria, J., & Susca, T. (2022). Analytic Hierarchy Processes (AHP) evaluation of green roof-and green wall-based UHI mitigation strategies via ENVI-met simulations. *Urban Climate*, *46*, 101293.
* Cazzolla Gatti, R., Zannini, P., Piovesan, G., Alessi, N., Basset, A., Beierkuhnlein, C., Di Musciano, M., Field, R., Halley, J. M., Hoffmann, S., Iaria, J., Kallimanis, A., Lövei, G. L., Morera, A., Provenzale, A., Rocchini, D., Vetaas, O. R., & Chiarucci, A. (2023). Analysing the distribution of strictly protected areas toward the EU2030 target. *Biodiversity and Conservation*. <https://doi.org/10.1007/s10531-023-02644-5>
* Zhao, Y., Sen, S., Susca, T., Iaria, J., Kubilay, A., Gunawardena, K., ... & Carmeliet, J. (2023). Beating urban heat: Multimeasure-centric solution sets and a complementary framework for decision-making. Renewable and Sustainable Energy Reviews, 186, 113668.
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