

Midori Yajima

Visiting Researcher

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I am an MSc graduate in ecology - ecosystem and conservation biology with a BSc in biological sciences and a keen interest in social ecological systems dynamics

Education

- 2018 - 2020 **MSc in Ecobiology - ecosystem and conservation biology**, *Sapienza University, Rome, Italy*.
○ Dissertation: Humans in the Northern Andes, a palaeo-proxy reconstruction for the last 12,000 years, Grade: 110 with honours/ 110
- 2014 - 2018 **BSc in Biology**, *Sapienza University, Rome, Italy*.
○ Dissertation: Structural characteristics of the tree-lined avenues in the Sapienza University campus, Grade: 108/ 110

Research experience

- 2022 - **Visiting researcher**, *Trinity College Botanic Garden, Dublin, Ireland*.
present ○ Design and implementation of Trinity College Botanic Garden's first long-term environmental monitoring program. The work involved undertaking literature review, design and testing of field and laboratory protocols, implementation of FAIR principles, data stewardship, exploratory data analysis, and coordinating the development of a dedicated website section. Part of the project was also dedicated to supporting the garden outreach strategy
- 2019 - 2020 **Student intern**, *University of Bergen, Bergen, Norway*.
○ Spatial and temporal assessment of human presence in the Northern Andes over the last 12,000 years. The work involved harmonisation, management, and visualisation of multivariate palaeoecological data. MSc project part of the ERC Advanced Grant Humans on Planet Earth (HOPE) project.
- 2017 - 2018 **Student intern**, *Sapienza University, Rome, Italy*.
○ Assessment of street trees contribution to improving microclimatic conditions in the Sapienza University campus

Courses and workshops

- Jan-23 **Research Integrity**, *Remote - Epigeum*.
- Mar-22 **FAIR data management**, *Remote - Trinity College Dublin*.
- Feb-22 **Social media accessibility for researchers**, *Remote - Trinity College Dublin*.

- Sep-21 **Cross-disciplinary course on sustainability sciences**, *Remote - Sapienza University of Rome.*
- May-21 **Data manipulation and statistical analysis in palaeoecology: a master-class in R**, *Remote - British Ecology Society, Palaeoecology Special Interest group.*
- Mar-21 **Data Science for Ecologists and Environmental Scientists**, *Remote - Coding Club at the University of Edinburgh.*

Awards and scholarships

- Nov-21 **Postgraduate scholarship**, *Sapienza University of Rome.*
 ○ Scholarship aimed at supporting postgraduate activities in a foreign institution
- Oct-21 **Best 15% student exam bonus**, *Sapienza University of Rome.*
 ○ Bonus on the tuition fees for the academic year, aimed at the 15% of students who have attained the best results by number of ECTS and grades obtained

Talks and presentations

Academic

- Mar-23 Yajima M., Murray M., McElwain J., Waldren S. (2023). Tapping into potential: using Trinity College Botanic Garden long-term monitoring programme to link climate change, urban green research, and community engagement. Sustainability Network meeting, Trinity College Dublin, Dublin, Ireland.
- Jun-22 Yajima M., Murray M., Waldren S., McElwain J. (2022). Tapping into potential: Trinity College Botanic Garden long term environmental monitoring program as a contribution to climate change research in botanic gardens. 11th Zoology-Botany Postgraduate Symposium, Trinity College Dublin, Dublin, Ireland.
- May-21 Yajima M. (2022). Re-imagining Trinity College Botanic Garden. Networks in Ecology/Evolution Research Discussion (NERD) seminar session, Trinity College Dublin, Dublin, Ireland.
- Sep-20 Yajima M., Flantua S., Mottl O., Birks J., Gonzalez C., Magri D. (2020). Humans in the Northern Andes - a palaeo-proxy reconstruction for the last 12,000 years. Ecological and Environmental Change Research Group seminar session, University of Bergen, Bergen, Norway.

Non academic

- Dec-21 [ITA] Yajima M. (2022). L'analisi del PAESC di Roma Capitale a cura del gruppo Climate Hub Roma. Pianeta Discarica, Giardini Popolari, Genzano, Italy.
- Oct-21 [ITA] Yajima M., Colatosti E. (2021). L'analisi del PAESC di Roma Capitale a cura del gruppo Climate Hub Roma. Intorno al gleso: rigenerazione e cambiamenti climatici a Roma seminar series, Villaggio Globale, Rome, Italy.

Outreach

Written contents

Yajima M. and De Sanctis C. (2023). Visual storytelling: Can comics help us advance solutions to our social and environmental challenges?. TNOC virtual roundtable. <https://www.thenatureofcities.com/2023/06/12/visual-storytelling-can-comics-help-us-advance-solutions-to-our-social-and-environmental-challenges-yes/>.

[ITA] Yajima M. (2023). Vedo, non vedo: la plant awareness disparity. Lupo Trek. <https://www.lupotrek.it/2023/01/31/vedo-non-vedo-la-plant-awareness-disparity/>.

Yajima M. (2022). Hidden legacies: what do colonialism and natural sciences have to do with each other? EcoEvo@TCD. <http://www.ecoevoblog.com/2022/08/24/hidden-legacies-what-do-colonialism-and-natural-sciences-have-to-do-with-each-other/>.

Yajima M. (2022). Data manipulation and statistical analysis in palaeoecology: an unexpected journey. Methods Blog. <https://methodsblog.com/2021/07/26/data-manipulation-and-statistical-analysis-in-palaeoecology-an-unexpected-journey/>.

[ITA] Yajima M. (2022). Dove Abbiamo lasciato le chiavi: il valore della paleoecologia. Lupo Trek. <https://www.lupotrek.it/2022/02/04/dove-abbiamo-lasciato-le-chiavi/>.

[ITA] Yajima M. (2022). Il mito della natura selvaggia. Lupo Trek. <https://www.lupotrek.it/2022/04/07/il-mito-della-natura-selvaggia/>.

[ITA] Yajima M. (2022). Eredit<e0> nascoste: cosa centrano scienze naturali e colonialismo? Lupo Trek. <https://www.lupotrek.it/2022/05/20/eredita-nascoste-cosa-centrano-scienze-naturali-e-colonialismo/>.

Visual contents

Yajima M. and De Sanctis C. (2023). The Cube. DSxD Anthology Vol. 2: Our Environment. <http://datasciencebydesign.org/blog/the-cube>.

Yajima M. (2023). Migrations (1), illustration for Lupo Trek's article, <https://midoriscrafts.artstation.com/projects/WBK6bX>.

Yajima M. (2023). Coral bleaching, illustration for Lupo Trek's article, <https://midoriscrafts.artstation.com/projects/KON5By>.

Yajima M. (2023). Plant awareness disparity, illustration for Lupo Trek's article, <https://midoriscrafts.artstation.com/projects/KON5By>.

Yajima M. (2023). Una foresta, illustration for Lupo Trek's article, <https://midoriscrafts.artstation.com/projects/wJDbBO>.

Yajima M. (2022). Tree diagram, illustration for the European Researchers' Night event at Trinity College Dublin, <https://midoriscrafts.artstation.com/projects/KObyNx>.

Yajima M. (2022). Environmental Education, logo for Lupo Trek's environmental education projects, <https://www.artstation.com/artwork/Omenew>.

Yajima M. (2021). Workshop, illustration for blog post. <https://midoriscrafts.artstation.com/projects/R3vqLO>.

Activities and events

Culture Night at Trinity College Botanic Garden - September 2022 - Supporting the organisation of the event.

European Researcher's Night - September 2022 - Co-design and curation of the event.

Trinity College Botanic Garden Open Day - 19th May 2022 - Supporting the organisation of the event.

Mentoring

Aug-22 Mentor for Orla Banting, undergraduate student intern in the Plant-Climate Interaction lab at Trinity College Dublin.

Mar-22 - present Supporting the teaching of third and fourth year Botany and Environmental Sciences modules in Trinity College Dublin.

Other experiences

2023 - present **Illustrator**, *Lupo Trek*.

○ Producing illustrations for articles, social media, and materials for environmental education

2022 - present **Mentor**, *Trinity Access*.

○ Supporting student learning in Code Plus, a program aimed at female transition-year students to explore careers and study in the field of computer science

2020 - present **Content writer and Editor**, *Lupo Trek*.

○ Writing and editing contents on nature, ecology, and outdoor education with a focus on sustainability, intersectionality, and ethics in the environmental sciences

2021 - 2022 **Climate and environmental activist**, *Climate Hub Project*.

○ Co-designing a campaign to promote environmental justice, civil participation and communication between actors within the framework of the City of Rome plan for a sustainable transition

2021 - 2022 **Notetaker and Tech Support**, *Global Assembly*.

○ Supporting the delivery of the first community assembly organised on a global scale, centered on the theme of environmental and climate change

Media coverage

Thompson S. (2022). A hidden biodiversity hotspot in Dublin suburbs. The Irish Times. <https://www.irishtimes.com/news/science/a-hidden-biodiversity-hotspot-in-dublin-s-suburbs-1.4841123>.

O Keeffe F. (2022). The Annual TCD Botany-Zoology Postgrad Symposium comes back with a bang! EcoEvo@TCD. <https://www.ecoevoblog.com/2022/06/23/the-annual-tcd-botany-zoology-postgrad-symposium-comes-back-with-a-bang/>.

[ITA] Mammuccari B. (2022). Da Genzano tante riflessioni con Pianeta Discarica, di Giardino Popolare: Per salvare i territori serve un modello di sviluppo sostenibile, equo e popolare. Castelli Notizie. <https://www.castellinotizie.it/2022/01/02/da-genzano-tante-riflessioni-con-levento-pianeta-discardica-di-giardino-popolare-per-salvare-i-territori-serve-un-modello-di-sviluppo-sostenibile-equo-e-popolare/>.

Skills

Technical

Programming (R, RStudio, Rmarkdown, Shiny apps)

Geographic Information Systems (QGIS)

Graphic design (Adobe Photoshop, Adobe Illustrator)

Reference management (Mendeley, Colandr)

Collaboration skills (Miro, GitHub)

Professional

Energy Dispersive and Backscattered **Electron Scanning Microscopy**

Production of **archival quality plant specimens**

Use of **field equipment** (thermohygrometer, porometer, fluorometer, ceptometer)

Exploratory **data analysis**, data **visualisation**, data **management**

Language

Italian (Mother tongue), English (Advanced), Portuguese (Intermediate)

References

Professor **Jennifer McElwain**, Chair of Botany
at Trinity College Dublin's School of Natural
Sciences and director of Trinity College Botanic
Garden
jmcelwai@tcd.ie
<https://www.tcd.ie/Botany/people/JMCELWAI/>
<https://plantclimatelab.ie/>

Doctor **Suzette Flantua** research fellow at
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<https://www.uib.no/en/persons/Suzette.Geertruida.Anna.Flantua>
<https://mountainsinmotion.w.uib.no/>