

FRANCESCO MARTINI

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Center for Interdisciplinary Research on Ecology and Sustainability
National Dong Hwa University, Hualien, Taiwan

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PROFESSIONAL APPOINTMENTS

2020 – present **Postdoctoral Researcher**, Center for Interdisciplinary Research on Ecology and Sustainability (CIRES), National Dong Hwa University, Taiwan

I am a plant ecologist mostly focusing on forest regeneration dynamics in the subtropics. For my PhD, I studied seedling dynamics and how biotic and abiotic factors contribute to shape seedling growth and survival, processes that ultimately affect species turnover and community composition. I also studied the soil seed bank and collected data on seed production to gather a more complete overview of the regeneration process. Further, I am interested in the interactions between plants and herbivores, studying patterns of herbivore damage across species and communities, and their drivers. At CIRES, I hope to: 1) expand my focus on spatial and temporal dynamics of adult trees, 2) assess forest diversity incorporating both field surveys data and analysis of spectral diversity from high spectral images, 3) contribute to projects focusing on biodiversity conservation and sustainable forest and land use management.

EDUCATION

2016 – 2020 **PhD Ecology**, Guangxi University, China
2012 – 2014 **MSc EcoBiology**, Sapienza University of Rome, Italy
2009 – 2012 **BSc Biology**, University of Padova, Italy

EDITORIAL POSITIONS AND QUALIFICATIONS

2020 – present **Assistant Editor**, Journal of Sustainable Forestry
2018 – 2020 **Editorial Assistant**, Journal of Sustainable Forestry
2015 **Certified Biologist**, Italian Professional Practice Exam

PUBLICATIONS (*equal contribution)

6. **Martini F.**, Aluthwattha S.T., Mammides C., Armani M., and U.M. Goodale. Plant apparency drives leaf herbivory in seedling communities across four subtropical forests. Oecologia (accepted).
5. **Martini F.** and U.M. Goodale. Leaf damage by herbivore feeding guilds along gradients of elevation and plant species richness. Biotropica (in press).
4. **Martini F.**, Xia S., Zou C., and U.M. Goodale 2020. Seedling growth and survival responses to multiple soil properties in subtropical forests of south China. Forest Ecology and Management 474: 118382.
3. **Martini F.**, Zou C., and U.M. Goodale 2019. Intrinsic biotic factors and microsite conditions drive seedling survival in a species with masting reproduction. Ecology and Evolution 9:14261-14272.
2. **Martini F.***, Xia S.*, Yang X., and U.M. Goodale 2019. Small-scale and multi-species approaches for assessing litter decomposition and soil dynamics in high-diversity forests. Applications in Plant Sciences 7(4): e1241.

1. **Martini F.**, Cunliffe R., Farcomeni A., De Sanctis M., D'Ammando G., and F. Attorre 2016. Classification and mapping of the woody vegetation of Gonarezhou National Park, Zimbabwe. *Koedoe* 58(1): a1388.

In review/revision

- Zou C.*, **Martini F.***, Xia S., Castillo-Diaz D., and U.M. Goodale. Elevation and micro environmental conditions directly and indirectly influence soil seed bank communities. *Under Review*.

SCHOLARSHIPS AND AWARDS

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|-------------|---|
| 2019 | International Seed Science Society, Seed Ecology VI, UK; Travel Fellowship (€300) |
| 2018 | Botanical Society of America, USA; Ecological Section Student Travel Award (\$500) |
| 2016 – 2020 | China Scholarship Council, China; PhD Scholarship |
| 2013 – 2014 | Erasmus Student Mobility Scholarship, European Union; Erasmus student at Universidad Complutense de Madrid, Spain |

PRESENTATIONS

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| 2019 | Martini F. and U.M. Goodale. Reproduction of <i>Acer sinense</i> during a high intensity masting event in a subtropical forest in South China. Seed Ecology VI, Regensburg, Germany. July 28-August 2. <i>Oral presentation</i> . |
| 2019 | Zou C., Martini F. , Castillo Diaz D., and U.M. Goodale. Soil seed bank dynamics along an elevational gradient in subtropical forests in Guangxi, south China. Botany Conference, Tucson, USA. July 27-31. <i>Oral presentation</i> . |
| 2018 | Martini F. , Xia S., and U.M. Goodale. Forest regeneration in a subtropical forest: factors shaping seedling community along elevation. Botany Conference, Rochester, USA. July 21-25. <i>Oral presentation</i> . |
| 2015 | Martini F. , Cunliffe R., Farcomeni A., D'Ammando G., Guillet A., and F. Attorre. Classification and mapping of the woody vegetation of Gonarezhou National Park, Zimbabwe. Savanna Science Network Meeting, Skukuza, South Africa. March 8-12. <i>Poster presentation</i> . |

TRAININGS

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| 2020 | e-Learning Course on Research Ethics, offered by the Japan Society for the Promotion of Science |
| 2019 | Methodological aspects of functional seed ecology workshop, University of Regensburg, Germany (three days) |
| 2018 | Advanced STATS workshop, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, China (one week) |
| 2015 | Open Foris Collect Earth training course and contribution to the global assessment of drylands, Global Forest Survey Project FAO. FAO headquarters, Rome, Italy (two weeks) |

TEACHING AND MENTORING

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| 2017 – 2020 | Chaobo Zou (MSc). Project title: Soil seed bank dynamics along an elevational gradient in subtropical forests in Guangxi, South China |
| 2017 – 2020 | Mentored and trained six undergraduate students in data collection in the field and greenhouse, data entry and management, and related laboratory research |

2017	Teaching Assistant, “Scientific Writing Training Session”, Guangxi University
2016	Teaching Assistant, “Leadership and Critical Skills Development program for Career Advancement”, Guangxi University

LANGUAGES

Italian	Native proficiency
English	Professional proficiency. IELTS (Academic Version), overall band score 7.5, 2015
Spanish	Working proficiency. DELE, Nivel B2, 2014
Mandarin	Elementary proficiency

SKILLS

Computer Programs:

R: Proficient in linear (mixed) models, generalized linear (mixed) models, structural equation modelling, survival analysis, ordination methods, and visualization packages

ArcGIS 10.1: Practical in mapping vegetation and bioclimatic data

QGIS: Basic use

Microsoft Office: Word, Excel, Power Point

Field Research:

Extensive experience in mountainous tropical and subtropical forests in China (soil seed bank, seed rain, seedling monitoring, soil sampling and microclimate and field site characteristics assessment)

Experience in animal counts using binoculars: counts of *Ursus arctos* (sub species *marsicanus*) population in the Parco Nazionale d'Abruzzo, Lazio e Molise, Italy

Experience in insect trapping and collection along mountain elevations in the Veneto Prealps, Italy

Greenhouse Research:

Two-year experience in management of soil seed bank assessment studies

REVIEWER

Ecology and Evolution (1); Journal of Sustainable Forestry (32)

REFEREES

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