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Education

- 12/2016 - 06/2021** **Ph. D., Biodiversity, Functioning and Management of Ecosystems.**
Summa cum Laude. International PhD. Universidad del País Vasco (Spain).
- 10/2014 - 09/2015** **M.Sc., Ecosystem Restoration.** 8.82/10. Universidad de Alcalá, U. Rey Juan Carlos, U. Complutense de Madrid, U. Politécnica de Madrid (Spain).
- 10/2008 - 07/2013** **B.Sc., Environmental Sciences.** 8.02/10. Universidad Autónoma de Madrid.
09/2010 - 07/2011 *Erasmus+* grant at Wageningen University (the Netherlands).

Research experience

- 06/2021 – 08/2021** **Research Assistant.** Basque Centre for Climate Change-BC3 (Spain)
 Supervisor: Teresa Gimeno
- 12/2016 - 05/2021** **Ph. D. student.** Basque Centre for Climate Change-BC3 (Spain)
 “Measuring the long-term recovery of forest ecosystems after anthropogenic disturbances to improve restoration strategies and outcomes”.
 Supervisors: David Moreno Mateos, Isabel Salcedo Larralde
- 06/2016 - 11/2016** **Research Assistant.** Basque Centre for Climate Change-BC3 (Spain)
 Supervisor: David Moreno Mateos
- 02/2016 - 05/2016** **Research Assistant.** Dpt. of Life Sciences, Universidad de Alcalá (Spain)
 Supervisors: José María Rey Benayas, Pedro Villar Salvador

Short research stays

- 13/02/2020 - 25/02/2020** **CNRS SETE Moulis** (France). Supervisor: Daniel Montoya
- 11/03/2019 - 25/05/2019** **Bristol University** (UK). Supervisor: Jane Memmott
- 26/02/2018 - 26/03/2018,**
22/10/2018 - 12/11/2018 **Natural History Museum of Denmark.** Supervisor: Tom Gilbert

Scientific publications

- Rodríguez-Uña A,** Salcedo I, Rodríguez-Echeverría S, Moreno-Mateos D. Under review. Centennial recovery of mycorrhizal interactions in European beech forests after mining. *Restoration Ecology*.
- De la Casa J, Barbeta A, **Rodríguez-Uña A,** Wingate L, Ogée J, Gimeno TE. Under review. Revealing a significant isotopic offset between plant water and its sources using a global meta-analysis. *Hydrology and Earth System Sciences*.
- Rodríguez-Uña A,** Cruz-Alonso V, Rohrer Z, Martínez-Baroja L. 2020. Fresh perspectives for classic forest restoration challenges. *Restoration Ecology* 28: 12-15.
- Moreno-Mateos D, Alberdi A, Morriën E, van der Putten W, **Rodríguez-Uña A,** Montoya D. 2020. The long-term restoration of ecosystem complexity. *Nature in Ecology and Evolution*, 4(5), 676–685.
- Rodríguez-Uña A,** Hidalgo-Castañeda, J, Salcedo I, Moreno-Mateos, D. 2019. Recuperación de las interacciones entre el haya (*Fagus sylvatica*) y los hongos ectomicorrícicos 140 años después del fin de la actividad minera. *Ecosistemas* 28(2):61-68.
- Moreno Mateos D, **Rodríguez Uña A,** Gamio Indakoetxea A. 2019. Historia de la minería, sus impactos y la recuperación forestal en la finca de Artikutza. In *Artikutza. Naturaleza e Historia*, Ayuntamiento de San Sebastián, pp. 112-127.

Manuscripts in progress

Rodríguez-Uña A, Cruz-Alonso V, López-López J A, Moreno-Mateos D. Centennial recovery of restored forests (to be submitted in summer 2021).

Rodríguez-Uña A, Montoya D, Alberdi A, Arbea J, Moreno-Mateos D. Long-term recovery of Collembola-soil fungi interaction networks after mining (to be submitted in autumn 2021).

Gimeno TE, **Rodríguez-Uña A**, Matesanz S, Fanin N, Wingate L, Porrás J, Moreno-Mateos D. Changes in community composition of ectomycorrhizal fungi along a precipitation gradient in relation to shifts in water-uptake in European beech forests (to be submitted in autumn 2021).

Scientific presentationsInvited talk

2018 **Rodríguez-Uña A**. Stability recovery of interaction networks in temperate forests after mining impacts caused since the Middle Ages. Center for Macroecology, Evolution and Climate, University of Copenhagen (Denmark).

Conferences (as speaker)

2021 **Rodríguez-Uña A**, Cruz-Alonso V, López-López JA, Moreno Mateos D. Long-term restoration of human-disturbed forests: drivers and time to recovery. *ESA Annual Meeting* (online).

2019 **Rodríguez-Uña A**. Recovery of soil interaction networks in temperate forests after a long-term mining impact. *II Jornadas Doctorales de la UPV/EHU* (Bilbao, Spain).

2019 **Rodríguez-Uña A**, Moreno Mateos D. Stability recovery of interaction networks in temperate forests after mining impacts caused since the Middle Ages. *1st SIBECOL & XIV AEET Meeting* (Barcelona, Spain).

2018 **Rodríguez-Uña A**, Moreno Mateos D. Recuperación de la estabilidad de las redes de interacción en ecosistemas forestales afectados por la minería desde la Edad Media. *IV SECF & AEET Meeting* (Alcázar de San Juan, Spain).

Conferences (as co-author)

2021 Cruz-Alonso V, ..., **Rodríguez-Uña A**, ..., Velado-Alonso E. Gender bias in Ecosystem Restoration: from Science to Practice. *12th SERE Conference* (online).

2021 De la Casa J, ..., **Rodríguez-Uña A**, ..., Gimeno TE. A global meta-analysis reveals a significant offset in $\delta^2\text{H}$ between plant water and its sources. *EGU General Assembly* (online).

2019 Moreno Mateos D, Alberdi A, **Rodríguez-Uña A**. Understanding the long-term assembly of ecosystem complexity to advance a limited restoration. *1st Meeting of the Iberian Ecological Society & XIV AEET Meeting* (Barcelona, Spain).

2019 **Poster:** Salcedo I, Cabero J, **Rodríguez-Uña A**, Moreno-Mateos D. The neglected hypogeous ectomycorrhizal fungi of Artikutza (Northern Navarre, Spain). *18th Congress of European Mycologists* (Warsaw, Poland).

2017 Martínez-Baroja L, ..., **Rodríguez-Uña A**, ..., Rey-Benayas JM. Acorn dispersal by magpie (*Pica pica*) in a Mediterranean forest and farmland mosaic. An overlooked actor for oak woodland spread? *IUFRO-sponsored 3rd Restoring Forests Congress* (Lund, Sweden).

2017 Martínez-Baroja L, ..., **Rodríguez-Uña A**, ..., Leverkus AB. How did I arrive here? Dispersal of holm oak (*Quercus ilex*) acorns by magpie (*Pica pica*) in a forest and farmland mosaic. *MEDECOS XIV International Conference* (Seville, Spain).

Session chair. *XVII EcoFlor meeting*, 2020 (Bilbao).

Volunteer. *III Jornadas Ibéricas de Ecología del Paisaje*, 2016 (Cáceres).

Volunteer. *II Foro Internacional de Restauración Ecológica*, 2015 (Madrid).

Grants and fellowships

2016	Fundación Tatiana Pérez de Guzmán el Bueno – Ph. D. fellowship	70,500€
2016	<i>Awarded but rejected:</i> Universidad del País Vasco – Ph. D. fellowship	65,500€
2016	European Social Fund (European Commission) - Research assistant	25,000€

Participation in research projects

2020 -	<i>Assessing the role of soil diversity on the maintenance of beech forest functioning in a climate change scenario (PIBA 2019-105).</i> Funding Agency: Basque Government (49.481€) Institution: Basque Centre for Climate Change-BC3. PI: Teresa Gimeno
2016 - 2019	<i>Estimating recovery time of temperate forests after historic anthropogenic disturbances along a gradient of complexity (CGL2015-70452-R).</i> Funding Agency: Spanish Ministry of Economy and Competitiveness (172.000€) Institution: Basque Centre for Climate Change-BC3. PI: David Moreno Mateos
2016	<i>Bird services (high mobile link species) in agroforestry mosaics: forest regeneration and plague regulation (CGL2014-53308-P).</i> Funding Agency: Spanish Ministry of Economy and Competitiveness (205.700€) Institution: Universidad de Alcalá. PI: Salvador Rebollo, José María Rey Benayas
2016	<i>Tolerance and physiological strategies of Iberian pines in juvenile stages in response to water stress, low temperatures and nutrient availability (AGL201124296).</i> Funding Agency: Spanish Ministry of Economy and Competitiveness (120.000€) Institution: Universidad de Alcalá. PI: Pedro Villar Salvador
2016	<i>Vulnerability and adaptation of Iberian forests to drought: a multi-scale approximation based on dendrochronology, forest inventories and modelling (CGL2015-69186-C2-2-R).</i> Funding Agency: Spanish Ministry of Economy and Competitiveness (87.000€) Institution: Universidad de Alcalá. PI: Miguel Ángel Zavala

Student supervision

2020	Master's thesis co-supervisor of Mr. <i>Javier De La Casa Sánchez</i> (U. de Alcalá, Spain) Best Master's thesis award from <i>Premios de la Cátedra del Agua y la Sostenibilidad</i>
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Skills

Computer	Statistical packages: RStudio, SPSS GIS platforms: QGIS, ArcGIS, gvSIG, GlobalMapper, Idrisi, Envoy Biomolecular analysis: Geneious, MEGA, figtree, Seed2 Dendrochronology: CDendro and Coorecorder Design software: GeoFluv-Natural Regrade, AutoCAD, Autocad Map 3D Image processing: Inkscape, Image J, Engauge, Datathief
Data analysis	Generalized and general linear models, mixed models, multivariate analysis Meta-analytic models Ecological network analysis Analysis of high-throughput sequencing data
Lab work	Fungal DNA extraction and amplification (PCR) Creation of mycorrhizal fungi cultures and inoculation in plants ¹⁵ N labelling of cultivated plants Extraction and analysis of non-structural carbohydrates in plant tissues

Field work Southwestern Greenland. Spain: Navarre, The Pyrenees and Central System

Languages Spanish (mother tongue), fluent English and basic French

Outreach

Mentoring

2019, 2020 [Zientzia-Azoka](#): mentoring high-school students to develop research projects.

2018, 2019 [Inspira-STEAM](#): encouraging scientific vocations in high-school female students.

2018 [BC3 Training Caravan](#): providing science-based answers about climate change, making science careers attractive for young people.

Worldwide media

2021 RETEMA: [Día Mundial del Medio Ambiente: Comienza la década de la restauración](#)

2020 18 media publications about *Rodríguez-Uña et al. 2019, Ecosistemas* (e.g. [EFE](#), [Europa Press](#), [SINC](#), [La Vanguardia](#), [COPE](#), [Diario de Navarra](#), [eldiario.es](#))

2019 Radio Euskadi, Hágase la luz: [Artikutza, un tesoro medioambiental a preservar](#)

2018 Podcast Oikos: [Hablamos con Asun Rodríguez, investigadora predoctoral del BC3](#)

Training

2021 *Study of microbiomes using high-throughput sequencing*. 20h. Universidad del País Vasco.

2020 *Introduction to multilayer networks*. 7h. Asociación Española de Ecología Terrestre.

2019 *Ecological networks analysis*. 40h. Universidad Rey Juan Carlos.

2017 *Molecular approaches for biodiversity detection*. 13h. Universidad del País Vasco.

2017 *Climate Change in an Era of Uncertainty*. 30h. BC3-Basque Centre for Climate Change & Universidad del País Vasco.

2017 *Information resources and tools for PhD students*. 9h. Universidad del País Vasco.

2016 *Optimizing the use of R for ecological analysis*. 30h. Asociación Española de Ecología Terrestre.

2016 *Exploratory Data Analysis and Linear Models in R*. 24h. Universidad de Alcalá.

2014 *On-line course in Environmental Education*. 140h. Centro Nacional de Educación Ambiental.

2014 *Socioeconomic development around National Parks with organic agriculture*. 28h. CENEAM-Centro Nacional de Educación Ambiental.

2014 *Volunteering, exclusion and development cooperation*. 14h. Universidad Politécnica de Madrid & Universidad Complutense de Madrid.

2013 *Communication and Education for Climate Change*. 27h. CENEAM-Centro Nacional de Educación Ambiental.

Academic societies

2021 Ecological Society of America (ESA)
Society of Ecological Restoration (SER)

2018 Sociedad Ibérica de Ecología (SIBECOL)

2017 British Ecological Society (BES)

2016 Asociación Española de Ecología Terrestre (AEET)