

Monica Alonso Eguiluz  
postdoctoral researcher  
Archaeology, Environmental changes & Geo-Chemistry  
Archaeology, Environmental changes & Geo-Chemistry  
History, Archeology, Arts, Philosophy and Ethics  
**Postal address:**  
Pleinlaan 2  
1050  
Brussels  
Belgium  
**Email:** Monica.Alonso.Eguiluz@vub.be  
**Web address:** <https://amgc.research.vub.be/dr-monica-alonso-eguiluz>

## Qualifications

PhD, Cum Laude, University of the Basque Country  
Award Date: 23 Feb 2021

## Employment

**postdoctoral researcher**  
Archaeology, Environmental changes & Geo-Chemistry  
Vrije Universiteit Brussel  
Brussels, Belgium  
1 Jan 2024 → 30 Jun 2025

**Archaeology, Environmental changes & Geo-Chemistry**  
Vrije Universiteit Brussel  
Brussels, Belgium  
1 Jan 2023 → present

**postdoctoral researcher**  
History, Archeology, Arts, Philosophy and Ethics  
Vrije Universiteit Brussel  
Brussels, Belgium  
1 Jul 2022 → 30 Jun 2025

**postdoctoral position**  
University of Barcelona  
Barcelona, Spain  
1 Jan 2020 → 1 Jan 2022

## Research outputs

**Into the Dark: Uncovering the Unexpected. Geoarchaeology of Urban Dark Earth Deposits.**  
Pümpin, C., Devos, Y., Alonso Eguiluz, M., Röpke, A., Lo Russo, S., Brönnimann, D., Kübler, S., Li, M., Vrydaghs, L., Deschler-Erb, S., Rentzel, P. & Ismail-Meyer, K., Nov 2024.

**The Early Upper Paleolithic deposit of Mughr el-Hamamah (Jordan): Archaeobotanical taphonomy and site formation processes**  
Alonso Eguiluz, M., Toffolo, M., White, C., Asouti, E., Boaretto, E., Nilsson Stutz, L., Stutz, A. J. & Albert, R. M., May 2024  
, In: Journal of Archaeological Science: Reports. 55, 14 p., 104471.

**Zwarte lagen in het historische centrum van Antwerpen: de eerste resultaten van het micromorfologisch onderzoek op de DIVA-site (Ant.)**  
Lo Russo, S., Alonso Eguiluz, M., Devos, Y., Celis, D. & Nys, K., Mar 2024, In: Archaeologia Mediaevalis. 47, p. 91-93

**New insights into shepherds' activities: Multi-proxy approach applied to fumier deposits from the north of Iberian Peninsula**  
Alonso Eguiluz, M., Albert, R. M., Vergès, J. M. & Fernández-Eraso, J., 20 Feb 2024, In: Quaternary International. p. 145-161 17 p.

**Shepherds and animal husbandry, origins, and development: New theoretical and methodological approaches**  
Alonso Eguiluz, M. (Guest ed.), Albert, R. M. (Guest ed.) & Vergès, J. M. (Guest ed.), 20 Feb 2024, In: Quaternary International. 683-684, June, p. 1-3 3 p.

**Editorial. Shepherds and animal husbandry, origins, and development: New theoretical and methodological approaches**  
Alonso Eguiluz, M., Albert, R. M., Vergès, J. M. & Kadowaki, S., 2024, In: Quaternary International. 683-684, February, p. 1-3

**Under What Conditions do the Inflorescence Bract Phytoliths of Oat [*Avena sativa* (L.)] Become Autofluorescent?**  
Vrydaghs, L., Hodson, M. J., Van Ham-Meert, A., Alonso Eguiluz, M. & Devos, Y., 2024, (Accepted/In press) In: Environmental Archaeology. 16 p.

**Early to Middle Bronze Age agricultural terraces in north-east England: morphology, dating and cultural implications**  
Brown, A. G., Fallu, D., Cucchiaro, S., Alonso Eguiluz, M., Albert, R. M., Walsh, K., Pears, B. R., Scaife, R., Langdon, C., Tarolli, P., Cockroft, D., Snape, L., Lang, A., Ascough, P., Zhaio, P., Van Oost, K. & Waddington, C., 11 Apr 2023, In: Antiquity. 97, 392, p. 348-366 19 p.

**Different methods, Different views: a phytolith case study from Cártama, Málaga, Spain**  
Banerjea, R., Vrydaghs, L., Alonso Eguiluz, M., Devos, Y., Schenkel, A., Melero-Garcia, F., Garcia-Contreras Ruiz, G. & Pluskowski, A., Apr 2023, (Unpublished).

**First insights into the phytolith analysis of soil thin sections from the tropics. The case of Kuk, Papua New Guinea**  
Vrydaghs, L., Devos, Y., Alonso Eguiluz, M. & Denham, T., Apr 2023, (Unpublished).

**Turn on the lights! Illuminating plant material using different light sources. Examples from the DIVA-site (Antwerp, Belgium)**  
Lo Russo, S., Alonso Eguiluz, M., Pümpin, C., Vrydaghs, L., Devos, Y., Celis, D. & Nys, K., Apr 2023, (Unpublished).

**Turn on the lights**  
Alonso Eguiluz, M., Lo Russo, S., Pümpin, C., Vrydaghs, L., Devos, Y. & Nys, K., 24 Mar 2023.

**50 shades of dark: micromorphological and phytolith studies of the DIVA-site in the historical centre of Antwerp (Belgium)**  
Lo Russo, S., Alonso Eguiluz, M., Devos, Y. & Nys, K., 24 Mar 2023, (Unpublished).

**Agricultural terraces in UK, new insights from biogenic microremains.**  
Alonso Eguiluz, M. & Albert, R. M., 2023, (Unpublished).

**Palaeoecological methods for understanding agricultural terraces in Europe: from pollen to sedaDNA**  
Brown, A. G., Fallu, D., Alonso Eguiluz, M., Albert, R. M., Tsartsidou, G., Scaife, R., Pears, B. R., Høeg, H., Talon, B., Lang, A., Walsh, K., Cuchiaro, S., Tarolli, P. & Alsos, I., 2023, (Unpublished).

**50 shades of dark**  
Lo Russo, S., Alonso Eguiluz, M., Devos, Y. & Nys, K., 2022, (Unpublished).

**Gestión del medio vegetal y dieta animal en depósitos neolíticos de fumier en la sierra de Cantabria (San Cristóbal y Los Husos II) y la sierra de Atapuerca (El Mirador). Análisis microarqueológico de fitolitos, pseudomorfos de calcita, esferolitos y FTIR**  
Alonso Eguiluz, M., 2021, (Unpublished)

**Procesos postdeposicionales y actividades antrópicas en la cueva de Arenaza I (Galdames, Vizcaya). A Microarchaeological approach: Postdepositional processes and human activities in Arenaza I cave (Galdames, Vizcaya). A Microarchaeological approach**

Alonso Eguiluz, M. & Albert, R. M., 2021, *La Cueva de Arenaza (San Pedro Galdames, Bizkaia). Resultados de la intervención arqueológica de 2017/2018*. Fernández-Eraso, J. (ed.). Bizkaia, Vol. 9. p. 87-98

**Deciphering Neolithic activities from a Cardial burial site (Cova Bonica) on the western Mediterranean coast**

Daura, J., Sanz, M., Oms, F. X., Pedro, M., Martínez, P., Mendiola, S., Oliva Poveda, M., Gibaja, J. F., Mozota, M., Alonso Eguiluz, M., Albert, R. M., Allué, E., Bañuls-Cardona, S., Lopez-García, J. M., Santos Arévalo, F. J. & Fullola, J. M., 2019, In: *Journal of Archaeological Science: Reports*. p. 324-347

**Rediles y pastores en la Prehistoria Reciente de Rioja Alavesa**

Fernández-Eraso, J., Perez, S., Ruiz Alonso, M., Alonso Eguiluz, M., García Rojas, M., Sánchez, A., Tarrío, A., Camarero, C., García-Martínez de Lagrán, I., Arévalo, E. & Polo-Díaz, A., 2017, *Miscelánea en homenaje a Lydia Zapata Peña (1965-2015)*. Universidad del País Vasco = Euskal Herriko Unibertsitatea, p. 397-426 30 p.

**The first herders in the upper Ebro basin at Los Husos II (Álava, Spain): microarchaeology applied to fumier deposits**

Alonso Eguiluz, M., Fernández-Eraso, J. & Albert, R. M., 2017, In: *Vegetation History and Archaeobotany*. 26, 1, p. 143-157 15 p.

**Management of residues and natural resources at San Cristóbal rock-shelter: Contribution to the characterisation of chalcolithic agropastoral groups in the Iberian Peninsula**

Polo-Díaz, A., Alonso Eguiluz, M., Ruiz Alonso, M., Perez, S., Mujika, J. A., Albert, R. M. & Fernández-Eraso, J., 2016, In: *Quaternary International*. p. 202-225

**Los molinos de El Cerco de Bolunburu (Zalla, Bizkaia). Una primera aproximación.**

Cepeda Ocampo, J. J., Moreno-Larrazabal, A. & Alonso Eguiluz, M., 2014, In: *Revista d'Arqueologia de Ponent*. 24, p. 323-330 8 p.

**Estudio de los fitolitos en conjuntos de la Prehistoria reciente en la Sierra de Cantabria. El caso de los niveles de redil de San Cristóbal (Laguardia, Álava)**

Alonso Eguiluz, M., 2012, In: *CKQ Estudios de Cuaternario / Kuaternario Ikasketak / Quaternary Studies*. 2, p. 1-14 14 p., 1.

## Activities

### Rowena Banerjee

Yannick Devos (Host), Monica Alonso Eguiluz (Host) & Luc Vrydaghs (Host)  
17 Dec 2024 → 18 Dec 2024

### Fitolitos, o el valor de lo que no se ve a simple vista

Monica Alonso Eguiluz (Speaker)  
7 Oct 2024

### Aroa García Suárez

Yannick Devos (Host) & Monica Alonso Eguiluz (Host)  
24 Jun 2024 → 28 Jun 2024

### Searching for Brussels late medieval gardens: geoarchaeological research in the ancient wetlands of the Senne valley (Belgium)

Yannick Devos (Speaker), Christine Pümpin (Contributor), David Brönnimann (Contributor), Luc Vrydaghs (Contributor), Monica Alonso Eguiluz (Contributor) & Kristin Ismail-Meyer (Contributor)  
21 May 2024

### **International Workshop on Archaeological Soil Micromorphology and Phytoliths**

Yannick Devos (Organiser), Luc Vrydaghs (Organiser), Monica Alonso Eguiluz (Organiser), Meihui Li (Organiser), Axel Cerón González (Organiser), Sarah Lo Russo (Organiser), David Brönnimann (Organiser), Simon Kübler (Organiser), Christine Pümpin (Organiser) & Kristin Ismail-Meyer (Organiser)

6 May 2024 → 8 May 2024

### **International Workshop on Archaeological Soil Micromorphology and Phytoliths**

Yannick Devos (Organiser), Luc Vrydaghs (Organiser), Monica Alonso Eguiluz (Organiser), Meihui Li (Organiser), Axel Cerón González (Organiser), Sarah Lo Russo (Organiser), David Brönnimann (Organiser), Simon Kübler (Organiser), Christine Pümpin (Organiser) & Kristin Ismail-Meyer (Organiser)

6 May 2024 → 8 May 2024

### **High-Resolution Microarchaeological Techniques for Understanding Depositional and Postdepositional Processes in Mugrel Hamamah Cave (Jordan)**

Monica Alonso Eguiluz (Speaker), Rosa Maria Albert (Speaker), Michael Toffolo (Speaker), Liv Nilsson Stutz (Speaker) & Aaron J. Stutz (Speaker)

18 Apr 2024

### **Integrating two different techniques to the phytolith analysis. The case study of DIVA (Antwerp, Belgium)**

Monica Alonso Eguiluz (Invited speaker)

28 Feb 2024

### **The diatoms from Rue du Boiteux**

Monica Alonso Eguiluz (Speaker)

27 Feb 2024

### **Third Workshop 'Welcome to the Dark Side'**

Yannick Devos (Organiser) & Monica Alonso Eguiluz (Organiser)

21 Nov 2023 → 22 Nov 2023

### **Work is in progress on the phytolith analyses for the WAVE project.**

Monica Alonso Eguiluz (Speaker)

21 Nov 2023

### **Integrating two different techniques to the phytolith analysis, the case study of DIVA (Antwerp, Belgium)**

Luc Vrydaghs (Speaker), Monica Alonso Eguiluz (Contributor), Sarah Lo Russo (Contributor), Yannick Devos (Contributor), Daan Celis (Contributor) & Karin Nys (Contributor)

4 Sep 2023

### **Dismantling urban Dark Earths. The combination of micromorphology and phytoliths analyses to understand past activities in the early medieval layers of DIVA (Antwerp, Belgium).**

Monica Alonso Eguiluz (Speaker), Sarah Lo Russo (Contributor), Yannick Devos (Contributor), Luc Vrydaghs (Contributor), Daan Celis (Contributor) & Karin Nys (Contributor)

18 Jul 2023

### **Martin J. Hodson**

Yannick Devos (Host), Luc Vrydaghs (Host) & Monica Alonso Eguiluz (Host)

20 Jun 2023 → 23 Jun 2023

### **Fumier deposits in medieval Cártama (Spain)?**

Rowena Banerjee (Speaker), Monica Alonso Eguiluz (Contributor), Luc Vrydaghs (Contributor), Yannick Devos (Contributor), Arnaud Schenkel (Contributor), V. Meurice (Contributor), F. Melero-Garcia (Contributor), Lionello F. Morandi (Contributor), Jérôme Ros (Contributor), G. Garcia-Contreras Ruiz (Contributor) & Alex Pluskowski (Contributor)

1 Apr 2023

**Up-dating floor deposits: An interdisciplinary study of floor deposits in the medieval site of DIVA (Antwerp, Belgium)**

Sarah Lo Russo (Speaker), Monica Alonso Eguiluz (Contributor), Yannick Devos (Contributor), Luc Vrydaghs (Contributor), Kristin Ismail-Meyer (Contributor), Arnaud Schenkel (Contributor), V. Meurice (Contributor), Daan Celis (Contributor) & Karin Nys (Contributor)

1 Apr 2023

**Vera Aldeias**

Yannick Devos (Host), Luc Vrydaghs (Host) & Monica Alonso Eguiluz (Host)

6 Mar 2023 → 8 Mar 2023

**Rowena Banerjea**

Yannick Devos (Host), Luc Vrydaghs (Host) & Monica Alonso Eguiluz (Host)

23 Jan 2023 → 25 Jan 2023

**Microarchaeology as a tool to examine the use of ancient agricultural systems**

Rosa Maria Albert (Speaker) & Monica Alonso Eguiluz (Contributor)

2023

**Microarqueología. El valor de lo que no se ve a simple vista**

Monica Alonso Eguiluz (Lecturer)

2023

**Phytoliths. An introduction**

Monica Alonso Eguiluz (Speaker)

2023

**Searching for crops. Applications of high-resolution microarchaeological techniques to European agricultural terraces**

Monica Alonso Eguiluz (Speaker) & Rosa Maria Albert (Contributor)

2023

**29th European Association of Archaeologists (EAA) Annual Meeting**

Monica Alonso Eguiluz (Chair), Sarah Lo Russo (Chair) & Karen Milek (Chair)

2023

**29th European Association of Archaeologists (EAA) Annual Meeting**

Rosa Maria Albert (Chair), Daniel Fallu (Chair), Kevin Walsh (Chair), Monica Alonso Eguiluz (Chair) & Antony G. Brown (Chair)

2023

**A microarchaeological approach to the Early Upper Paleolithic site of Mughr el-Hamamah (Jordan)**

Monica Alonso Eguiluz (Speaker), Michael Toffolo (Contributor), Rosa Maria Albert (Contributor), Elisabetta Boaretto (Contributor), Chantel White (Contributor), Eleni Asouti (Contributor), Liv Nilsson Stutz (Contributor) & Aaron J. Stutz (Contributor)

2022

**Challenges for fostering equality and intersectionality at the University of Barcelona: The case of the Institute of Archaeology (IAUB)**

Ana Pastor Perez (Speaker), Cati Mas Florit (Contributor), Alessandra Pecci (Contributor), Paula Plaza Conesa (Contributor), Paloma Zarzuela Gutierrez (Contributor), Octavio Torres Gomariz (Contributor) & Monica Alonso Eguiluz (Contributor)

2022

**El estudio de microrrestos en Arqueología. El valor de lo que no se ve a simple vista**

Monica Alonso Eguiluz (Lecturer)

2022

**Microscopic, luminescence, and geochemical methods for Unraveling land-use history of agricultural terraces: case studies from Sicily and Veneto, Italy**

Daniel Fallu (Speaker), Monica Alonso Eguiluz (Contributor), Rosa Maria Albert (Speaker), Sara Cucchiari (Contributor), Paolo Tarolli (Contributor), Andreas Lang (Contributor) & Antony G. Brown (Contributor)  
2022

**Northern European Agricultural Terraces: A multi-proxy approach to Bjørnskinn (Norway) to understand its uses by applying geochemistry, phytoliths, and pollen.**

Monica Alonso Eguiluz (Speaker), Daniel Fallu (Contributor), Inger Alsos (Contributor), H. Hoeg (Contributor) & Antony G. Brown (Contributor)  
2022

**Phytoliths. An introduction**

Monica Alonso Eguiluz (Lecturer)  
2022

**Archaeobotanical taphonomy and interpretation of site formation processes. Seed, charcoal and phytolith remains from Mughr el-Hamamah (Jordan)**

Monica Alonso Eguiluz (Speaker), Rosa Maria Albert (Contributor), Chantel White (Contributor), Eleni Asouti (Contributor), Elisabetta Boaretto (Contributor), Liv Nilsson Stutz (Contributor) & Aaron J. Stutz (Contributor)  
2021

**Microarqueología. El valor de lo que no se ve a simple vista**

Monica Alonso Eguiluz (Lecturer)  
2021

**New insights into agricultural terrace systems. The use of biological micro-remains for terrace use**

Monica Alonso Eguiluz (Speaker), Rosa Maria Albert (Contributor) & Antony G. Brown (Contributor)  
2021

**The use of Microarchaeology as a tool to recognize husbandry practices during the Neolithic in the north of the Iberian Peninsula. Communication**

Monica Alonso Eguiluz (Speaker), Rosa Maria Albert (Speaker) & Javier Fernández-Eraso (Speaker)  
2018

***Microarchaeology at the Early Upper Paleolithic site of Mughr el Hamamah (Jordan). Results from phytoliths, spherulites, ash pseudomorphs and FTIR analysis***

Rosa Maria Albert (Speaker), Monica Alonso Eguiluz (Speaker), Chantel White (Speaker), Liv Nilsson Stutz (Speaker) & Aaron J. Stutz (Speaker)  
2017

**La explotación de recursos vegetales durante el Paleolítico Superior levantino: Microarqueología aplicada al yacimiento de Mughr El-Hamamah (Jordania)**

Monica Alonso Eguiluz (Speaker) & Rosa Maria Albert (Speaker)  
2017

**Depositional Context of the Early Upper Paleolithic Occupation (45–39 ka) at Mughr el-Hamamah, Jordan: Implications for Tracing Behavioral Change across the Middle-Upper Paleolithic Transition Communication**

Aaron J. Stutz (Speaker), Rosa Maria Albert (Speaker), Monica Alonso Eguiluz (Contributor), Trina Arpin (Contributor), Eleni Asouti (Contributor), John J. Shea (Speaker) & Liv Nilsson Stutz (Contributor)  
2016

**Estudio arqueobotánico en depósitos de redil. Análisis de microrrestos y macrorrestos vegetales del yacimiento de San Cristóbal (Laguardia, Álava).**

Monica Alonso Eguiluz (Speaker), Monica Ruiz Alonso (Contributor), Sebastian Perez (Contributor) & Javier Fernández-Eraso (Contributor)

2016

**Microarchaeology applied to fumier deposits: the use of phytoliths, spherulites and ash pseudomorphs as a tool for reconstruct livestock practices.**

Monica Alonso Eguiluz (Speaker), Javier Fernández-Eraso (Contributor) & Rosa Maria Albert (Contributor)  
2016

**Microarchaeology applied to fumier deposits: the use of phytoliths, spherulites and ash pseudomorphs as a tool for reconstruct livestock practices.**

Monica Alonso Eguiluz (Speaker), Javier Fernández-Eraso (Speaker) & Rosa Maria Albert (Speaker)  
2015

**Análisis de fitolitos, esferolitos y pseudomorfos de calcita aplicados a corrales prehistóricos. El caso de Los Husos II (Laguardia, Álava)**

Monica Alonso Eguiluz (Speaker), Rosa Maria Albert (Contributor) & Javier Fernández-Eraso (Contributor)  
2014

**Integrating microstratigraphical and palaeobotanical analyses for the study of prehistoric pen deposits: the case of San Cristóbal (Northern Iberia)**

Ana Polo-Diaz (Presenter), Monica Alonso Eguiluz (Contributor), Monica Ruiz Alonso (Contributor), Sebastian Perez (Contributor), Rosa Maria Albert (Contributor) & Javier Fernández-Eraso (Contributor)  
2014

**Caracterización de las actividades económicas de las comunidades productoras del alto valle del Ebro mediante el estudio de fitolitos. El caso de San Cristóbal (Laguardia, Álava).**

Monica Alonso Eguiluz (Speaker)  
2013

**El procesado vegetal en el castro de la Segunda Edad del Hierro de Bolumburu (Vizcaya). Aportaciones desde el estudio de fitolitos**

Monica Alonso Eguiluz (Speaker), Marta Portillo (Contributor), Aitor Moreno-Larrazabal (Contributor), Lydia Zapata (Contributor) & Rosa Maria Albert (Contributor)  
2013