

ADA DINCKAL- MSc

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Universidad de La Laguna

IUBO-AMBI LAB

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EDUCATION

- PhD** Universidad de La Laguna,
Departamento de Geografía, Archaeological Micromorphology
and Biomarkers (AMBI) Laboratory. Intended 2025
Dissertation: “TBD”
Advisors: Carolina Mallol, Angel Carrancho
- MSc** Eberhard Karls University of Tübingen,
Institute of Archaeological Sciences, Geoarchaeology
Working Group 2020
Thesis: “*Take it with a grain of salt: Micromorphology and
Diagenesis at Diepkloof rock shelter (DRS), South Africa.*”
Advisors: Christopher Miller, Susan Mentzer
- BArch** La Trobe University,
Hons. Department of Archaeology, The Australian
1st Class Archaeomagnetism Laboratory (TAAL) 2016
Thesis: ‘*Archaeology in Ashes: A pilot study for using GIS modelled
high resolution in-situ magnetic susceptibility as a proxy for fire use
at the middle stone age site of Pinnacle Point 5-6, South Africa*’
Advisor: Andy IR Herries
- BArch** La Trobe University,
Department of Archaeology 2014

FUNDING AND HONORS

FPI Fellowship Grant 2021

A Spanish government grant for pre-doctoral candidates targeted at the formal training of researchers. My grant was awarded to explore the archaeological context of Neanderthal fire use in changing environmental systems and to develop methods of geoarchaeological research in the use of soil micromorphology and rock magnetism.

PUBLICATIONS, CONFERENCES AND PRESENTATIONS

Journal Publications

Dinckal, A., Fisher, E. C., Herries, A. I. R., & Marean, C. W. (2022). Mapping magnetism: Geophysical modelling of stratigraphic features by using in situ magnetic susceptibility measurements at Pinnacle Point 5-6 North, South Africa. *Geoarchaeology*. <https://doi.org/10.1002/gea.21924>

Reidsma, F. H., Sifogeorgaki, I., **Dinckal, A.**, Huisman, H., Sier, M. J., Van Os, B., & Dusseldorp, G. L. (2021). Making the Invisible Stratigraphy Visible: A Grid-Based, Multi-Proxy Geoarchaeological Study of Umhlathuzana Rockshelter, South Africa. *Frontiers in Earth Science*, 9. <https://doi.org/10.3389/feart.2021.664105>

Hopley, P. J., Weedon, G. P., Brierley, C. M., Thrassivoulou, C., Herries, A. I. R., **Dinckal, A.**, Richards, D. A., Nita, D. C., Parrish, R. R., Roberts, N. M. W., Sahy, D., & Smith, C. L. (2018). Orbital precession modulates interannual rainfall variability, as recorded in an Early Pleistocene speleothem. *Geology*, 46(8), 731-734. <https://doi.org/10.1130/g45019.1>

Squitieri, A., Amicone, S., Dinckal, A., Altaweel, M., Gur-Arieh, S., Rohde, J., Herr, J.-J., Pietsch, S., & Miller, C. (2022). A Multi-Method Study of a Chalcolithic Kiln in the Bora Plain (Iraqi Kurdistan): The Evidence from Excavation, Micromorphological and Pyrotechnological Analyses. *Open Archaeology*, 8(1), 853-872. <https://doi.org/doi:10.1515/opar-2022-0265>

Journal Papers in Review

Fernandez-Palacios, E., Jambrine-Enriques, M., Mentzer, S.M., Rodriguez de Vera, C., Dinckal, A., Eguiz, N., Herrera-Herrera, A.M., Francisco Navarra Mederos, J., Marrero Salas, E., Miller, C.E., Mallol, C., “Reconstruction formation processes at the Canary Island aboriginal site of Belmaco Cave (La Palma, Spain) through multiproxy geoarchaeological approach” Submitted to: *Geoarchaeology*

Thesis and Dissertations

Dinckal, A. (2020). Take it with a grain of salt: Micromorphology and Diagenesis at Diepkloof rockshelter (DRS), South Africa [Eberhard Karls University of Tübingen]. Tübingen, Germany. Advisors: Christopher E. Miller, Susan M. Mentzer

Dinckal, A. (2016). Archaeology in Ashes: A pilot study for using GIS modelled high resolution in-situ magnetic susceptibility as a proxy for fire use at the Middle Stone Age site of Pinnacle Point 5-6 [La Trobe University]. Melbourne, Australia. Advisors: Andy IR Herries, Erich Fisher (Informal)

Conference Papers- Presentations

Dinckal, A “Magnetic Microarchaeology: Methodological Developments in the integration of Archaeological Soil Micromorphology with Archaeomagnetic Analysis,” European Association of Archaeologists (EAA)- Annual Meeting Budapest (2022): Session: *Multi-proxy Microarchaeological approaches: State of the art, New Advances, Limitations and Future Perspectives*.

Dinckal., A “Archaeology in Ashes: A pilot study for using GIS modelled high resolution in-situ magnetic susceptibility as a proxy for fire use at the Middle Stone Age site of Pinnacle Point 5-6” National Archaeological Student Conference (NASC)- Melbourne, 2017.

Conference Papers- Posters

Reidsma, F. H., Sifogeorgaki, I., **Dinckal, A.**, Huisman, H., Sier, M. J., Os, B. V., & Dusseldorp, G., ‘Integrating geoarchaeological techniques to reveal the invisible stratigraphy at Umhlathuzana rockshelter, South Africa-a grid-based approach’ Developing International Geoarchaeology 2021

Dinckal, A., Fisher, E., Herries, A.I.R., Marean, C., “Mapping Magnetism: Geophysical Modelling of Stratigraphic Features at Pinnacle Point 5-6 North, South Africa” Developing International Geoarchaeology 2021

Dinckal, A., Haaland, M., Mentzer, S.M., Miller, C.E., ‘A Picture Saves a Thousand Samples: Using photography and photogrammetry to map the distribution of archaeological sediment samples’ Ak Geoarchaeology 2021.

PRESENTATIONS AND INVITED LECTURES

Workshop, “Fire and Pyrotechnology Session,” Virtual Micromorphology (ViMi) 2 Meeting, November 2021.

Paper Presentation, “Take it with a grain of salt: Micromorphology at Diepkloof, South Africa”, University of Tübingen Archaeometry Kolloquium, November 2020.

Paper Presentation, “Take it with a grain of salt: Micromorphology and Diagenesis at Diepkloof rockshelter (DRS), South Africa” Institute of Naturwissenschaftliche Archäologie (INA) Master’s Kolloquium, November 2020.

Presenter (co-lead), “Interview with Andy IR Herries” INA Kolloquium, August 2020.

Presenter (co-lead), “Interview with Paul Goldnberg” INA Kolloquium, April 2020.

RESEARCH EXPERIENCE

Laboratory Experience:

Researcher

With *Paleomagnetism Group, University of Burgos* 2021 to ongoing

Responsibilities

- Lead researcher for the Magnetic Micromorphology project
- Technical expert
- Micromorphologist Specialists

Researcher

With *Archaeological Micromorphology and Biomarkers (AMBI) Laboratory* 2021 to ongoing

Responsibilities

- Lead researcher for the Magnetic Micromorphology project
- Technical expert
- Micromorphologist and Magnetics Specialists

Micromorphologists

With *Peshdar Plains Project, University of Tübingen* 2020 to 2021

Responsibilities

- Micromorphologists for the analysis of a Chalcolithic and Iron Age Kilns.

Research and Technical Assistant, Masters student:

With *Geoarchaeology Group at the Institute for Archaeological Science, University of Tübingen* 2018 to 2021

Responsibilities

- Geoarchaeological research
- Preparation of soil micromorphological samples

Research Assistant:

With *The Australian Archaeomagnetism Laboratory* 2014 to 2016

Responsibilities

- Geoarchaeological and Archaeomagnetic analysis

Geoarchaeological Specialists:

With <i>Mossel Bay Archaeology Project (CRM)</i>	2015 and 2016
Responsibilities	
<ul style="list-style-type: none"> Gathering, preparation and analysis of geoarchaeological materials 	
Artefact Maintenance	
with <i>Andrew Long + Associate</i>	2014
Responsibilities:	
<ul style="list-style-type: none"> Maintenance of artefacts from Historic Excavations 	
<u>Excavation:</u>	
Field Archaeologist, Specialists: with <i>University of La Laguna</i>	
Abric Del Pastor Excavation, Alcoi, Spain	2022
Responsibilities	
<ul style="list-style-type: none"> Excavation Geoarchaeological Specialists 	
Field Archaeologist, Specialists: with <i>University of La Laguna</i>	
El Salt Excavation, Alcoi, Spain	2022
Responsibilities	
<ul style="list-style-type: none"> Excavation Geoarchaeological Specialists 	
Field Archaeologist, Specialists: with <i>University of La Laguna</i>	
Belmaco and Buracass (Volcano Salvage), Palma, Spain	2021
Responsibilities	
<ul style="list-style-type: none"> Geoarchaeological and Technical Specialists 	
Field Archaeologist, Specialists: with <i>University of La Laguna</i>	
Abric Del Pastor Excavation, Alcoi, Spain	2021
Responsibilities	
<ul style="list-style-type: none"> Excavation Geoarchaeological Specialists 	
Field Archaeologist, Specialists: with <i>University of La Laguna</i>	
El Salt Excavation, Alcoi, Spain	2021
Responsibilities	
<ul style="list-style-type: none"> Excavation Geoarchaeological Specialists 	
Field Technician: with <i>University of Tübingen</i>	
Leba Excavations, Angola	2020
Responsibilities	
<ul style="list-style-type: none"> Technical Expert 	
Field Archaeologists: with <i>Extent Heritage</i>	
Rockbank Development Indigenous Salvage, Victoria, Australia	2019
Responsibilities	
<ul style="list-style-type: none"> Excavation 	
Field Archaeologists: with <i>Ochre Imprints</i>	
A'Beckett Street Historic Excavation, Victoria, Australia	2019
Responsibilities	
<ul style="list-style-type: none"> Excavation 	
Area Leader: with <i>Ochre Imprints</i>	
Melbourne City Square Metro 'CBD South'	
Historical Excavation, Victoria, Australia	2018
Responsibilities	
<ul style="list-style-type: none"> Team Leader of excavation area with duties in management of trenches, archaeological contexts and students 	
Lead Archaeologists: with <i>Andrew Long + Associates</i>	
Colac Prince Highway Extension Indigenous Salvage, Victoria, Australia	2018
Responsibilities	
<ul style="list-style-type: none"> Lead Field Archaeologists, Excavation, and Management 	

Lead Archaeologists: with <i>Andrew Long + Associates</i> Leakes Road Indigenous Complex Assessment, Victoria, Australia Responsibilities <ul style="list-style-type: none"> • Lead Field Archaeologists, Excavation, and Mangement 	2018
Field Archaeologists: with <i>Green Heritage</i> Queens Place Historic Excavation, Victoria, Australia Responsibilities <ul style="list-style-type: none"> • Excavation 	2017
Field Archaeologists: with <i>Green Heritage</i> Footscray Tannery Historic Excavation, Victoria, Australia Responsibilities <ul style="list-style-type: none"> • Excavation 	2017
Field Archaeologists: with <i>Extent Heritage</i> Rockbank Development Indigenous Salvage, Victoria, Australia Responsibilities <ul style="list-style-type: none"> • Excavation 	2017
Field Archaeologists: with <i>Extent Heritage</i> Richmond Maltings Historic Excavation, Victoria, Australia Responsibilities <ul style="list-style-type: none"> • Excavation 	2017
Field Archaeologists: with <i>Extent Heritage</i> East Melton Indigenous Excavation, Victoria, Australia Responsibilities <ul style="list-style-type: none"> • Excavation 	2017
Field Archaeologists: with <i>Andrew Long + Associate</i> Tarnet Indigenous Excavation (WETA), Victoria, Australia Responsibilities <ul style="list-style-type: none"> • Excavation and Trench Management 	2017
Field Archaeologists: with <i>GML</i> Arthur Phillip Primary School (Parramatta) Excavations, NSW, Australia Responsibilities <ul style="list-style-type: none"> • Excavation and Trench Management • Context description and maintenance 	2017
Field Archaeologists: with <i>Alpha Archaeology</i> Old Carlton United Brewer (Scape) Excavation, Victoria, Australia Responsibilities <ul style="list-style-type: none"> • Excavation and Trench Management • Context description and maintenance 	2016
Field Archaeologists: with <i>Alpha Archaeology</i> The Basin, Dandenong and Rosebud, Victoria, Australia Responsibilities <ul style="list-style-type: none"> • Excavation 	2016
Field Archaeologists: with <i>Luebbers and Associate Heritage Advisor</i> Tikalara Park, Victoria, Australia Responsibilities <ul style="list-style-type: none"> • Excavation 	2016
Field Archaeologists: with <i>Arizona State University</i> Vleesbaai Excavation, South Africa Responsibilities <ul style="list-style-type: none"> • Excavation and Survey 	2016
Field Archaeologists: with <i>Arizona State University</i> Pinnacle Point 5-6 Excavation, South Africa Responsibilities <ul style="list-style-type: none"> • Excavation, • Geoarchaeological specialists 	2016

Field Archaeologists: with <i>Alpha Archaeology</i> Toolem Vale Excavation, Victoria, Australia Responsibilities <ul style="list-style-type: none"> Excavation 	2016
Field Archaeologists: with <i>Alpha Archaeology</i> Mornington Peninsula Heritage Survey, Victoria, Australia Responsibilities <ul style="list-style-type: none"> Excavation 	2015
Field Archaeologists: with <i>Alpha Archaeology</i> Zeibel Excavation, Victoria, Australia Responsibilities <ul style="list-style-type: none"> Excavation and trench management 	2015
Field Archaeologists: with <i>University of Texas</i> Knysna Excavations, South Africa Responsibilities <ul style="list-style-type: none"> Excavation and Survey 	2015
Field Archaeologists: with <i>Arizona State University</i> Vleesbaai Excavation, South Africa Responsibilities <ul style="list-style-type: none"> Excavation and Survey 	2015
Field Archaeologists: with <i>Arizona State University</i> Pinnacle Point 5-6 Excavation, South Africa Responsibilities <ul style="list-style-type: none"> Excavation, Geoarchaeological specialists 	2015
Field Archaeologists: with <i>Luebbers and Associate Heritage Advisor</i> Ringwood Salvage Operations, Victoria, Australia Responsibilities <ul style="list-style-type: none"> Excavation 	2015
Field Archaeologists: with <i>Andrew Long + Associates</i> Nelsons Place Williamstown, Victoria, Australia Responsibilities <ul style="list-style-type: none"> Excavation 	2014
Field Archaeologists: with <i>Andrew Long + Associates</i> Nelsons Place Williams, Victoria, Australia Responsibilities <ul style="list-style-type: none"> Excavation 	2014
Field Archaeologists: with <i>Andrew Long + Associates</i> Nelsons Place Williams, Victoria, Australia Responsibilities <ul style="list-style-type: none"> Excavation 	2014
Field Archaeologists: with <i>Andrew Long + Associates</i> Little Lonsdale Excavation and Allston Lane Excavation, Victoria, Australia Responsibilities <ul style="list-style-type: none"> Excavation, Artefact maintenance 	2014
Field Archaeologists: with <i>La Trobe University, The Australian Archaeomagnetism Laboratory,</i> Brown's Creek Midden Excavation, Victoria, Australia Responsibilities <ul style="list-style-type: none"> Excavation 	2014
Field Archaeologists: with <i>La Trobe University,</i> Ned's Corner (Mildura) Survey, Victoria, Australia Responsibilities <ul style="list-style-type: none"> Field Survey, Lithic Analysis 	2013

PROFESSIONAL AND RECREATIONAL TRAININGS

Athens Geoarchaeological Fieldschool

Malcolm H. Wiener Laboratory for Archaeological Science, Athens, 2019

Field school on the analysis and interpretation of geoarchaeological material conducted in the Agora of classical Athens

PADI Advanced Open Water Scuba Diver, *La Trobe University Dive club*], September 2018

Description: Recreational diving license trained to 40 meters depth

PADI Open Water Scuba Diver, *La Trobe University Dive club*], August 2014

Description: Recreational diving license trained to 18 meters depth

PROFESSIONAL AFFILIATIONS

Current

Archaeological Micromorphology and Biomarkers (AMBI) Laboratory, *University of La Laguna, La Laguna, Santa Cruz de Tenerife, Spain* 2021-Present

Researcher, Geoarchaeologists, Micromorphologists, Rock Magnetism expert.

Description of role or responsibilities, if applicable.

Paleomagnetismo Laboratory, *University of Burgos, Burgos, Castille y Leon, Spain* 2022-Present

Rock Magnetism researcher

Departamento of Geografía, *University of La Laguna, La Laguna, Santa Cruz de Tenerife, Spain* 2021-Present

Researcher, Geoarchaeologists, Micromorphologists, Rock Magnetism expert.

Description of role or responsibilities, if applicable.

Previous

Senckenberg Centre for Human Evolution and Paleoenvironment, *Eberhard Karls University Tübingen, Tübingen, Germany*, 2019-2021

Laboratory Technical Assistant

Institute for Archaeological Sciences, *Eberhard Karls University of Tübingen, Tübingen, Germany*. 2018-2021

Master's Student, Laboratory Technical Assistant

The Australian Archaeomagnetism Laboratory, *La Trobe, Bundoora, Victoria, Australia*, 2014-2016

Research Assistant

Palaeoscience, Department of Archaeology and History, *La Trobe University, Bundoora, Victoria, Australia* 2012-2016

Bachelors' student

OTHER VOCATIONS

Institute of Archaeological Science Fachschaft (Student Governing Council), Eberhard Karls University of Tübingen,, 2019-2020

Student Council Member, Founding Member

La Trobe Archaeology Society, La Trobe University, 2014

Administrative Member

SBS Turkish Radio, ‘ŞEY’ Program, SBS Radio Australia, 2006-2011

Talkback Radio Program Co-Host.

LANGUAGES

English: Native Language

Turkish: Native Language

Spanish: Have experience

German: Have experience

OTHER

Australian and Turkish citizenship