

Marco Zanon

Academic Resume

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Institut für Ur- und Frühgeschichte

Christian-Albrechts-Universität

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RESEARCH FOCI

European vegetation history | Human impact | Land use | Holocene | Palaeoecology

TECHNICAL SKILLS

Basic computer literacy

- Windows, Linux and Mac operating systems
- Vector and raster graphic editors (Inkscape, GIMP)
- Word processing, spreadsheet and presentation software (Microsoft Office Suite, Apache OpenOffice)

Coding languages and tools

- R, PostgreSQL, Shell, AWK

Geographic Information Systems

- QGIS, GRASS, GMT

Field-specific skills

- Organization of field campaigns | Lake and wetland corings | Chemical preparation of palynological samples | Pollen analysis | Age-depth modeling (OxCal, Bacon, CLAM)

ACADEMIC QUALIFICATIONS

2013 - 2020

PhD in Natural Sciences | Christian-Albrechts-Universität zu Kiel (Germany)

Human-environment dynamics across the Bronze Age in northern Italy: method testing and multi-proxy approaches

2007 - 2010

Master's degree in Archaeology | Università degli Studi di Milano (Italy)

L'ambiente naturale e l'impatto antropico nel bacino infra-morenico del Lavagnone di Desenzano del Garda tra VI e IV millennio a.C.

(Natural environment and human impact in the intra-moraine basin of Lavagnone di Desenzano del Garda between VI and IV millennium BC)

2004 - 2007

Bachelor's degree in Cultural Heritage Sciences | Università degli Studi di Milano (Italy)

Analisi palinologica di campioni dal settore A del Lavagnone di Desenzano del Garda (BS). Contributo alla ricostruzione dell'ambiente nelle fasi iniziali dell'antica età del Bronzo

(Pollen analysis of samples from sector A of Lavagnone di Desenzano del Garda (Brescia, Italy). A contribution to the reconstruction of the environment during the initial phases of the Early Bronze Age)

RESEARCH EXPERIENCE

2016 - ongoing | **Research assistant**

Collaborative Research Centre 1266: "Scales of Transformation: Human-Environmental Interaction in Prehistoric and Archaic Societies" - Christian-Albrechts-Universität zu Kiel (Germany)

2011-2012 | **Research assistant**

Atmosphere Regolith Vegetation (ARVE) Research Group - Ecole polytechnique fédérale de Lausanne (Switzerland)

2007 - ongoing | **Freelance collaborator**

Laboratory of Palynology and Palaeoecology CNR-IDPA (Italy)

PEER-REVIEWED PUBLICATIONS

2020

- Corradini, E., Wilken, D., **Zanon, M.**, Groß, D., Lübke, H., Panning, D., Dörfler, W., Rusch, K., Mecking, R., Erkul, E., Pickartz, N., Feeser, I., Rabbel, W. *Reconstructing the palaeoenvironment at the early Mesolithic site of Lake Duensee: Ground-penetrating radar and geoarchaeology for 3D facies mapping*. The Holocene. <https://doi.org/10.1177/0959683620902234>

2019

- **Zanon, M.**, Unkel, I., Andersen, N., Kirleis, W. *Palaeoenvironmental dynamics at the southern Alpine foothills between the Neolithic and the Bronze Age onset. A multi-proxy study from Bande di Cavriana (Mantua, Italy)*. Quaternary Science Reviews 221, 105891. <https://doi.org/10.1016/j.quascirev.2019.105891>
- Groß, D., Piezonka, H., Corradini, E., Schmölcke, U., **Zanon, M.**, Dörfler, W., Dreibrodt, S., Feeser, I., Krüger, S., Lübke, H., Panning, D., Wilken, D. *Adaptations and transformations of hunter-gatherers in forest environments: New archaeological and anthropological insights*. The Holocene 29, 1531–1544. <https://doi.org/10.1177/0959683619857231>

2018

- Groß, D., Lübke, H., Schmölcke, U., **Zanon, M.** *Early Mesolithic activities at ancient Lake Duensee, northern Germany*. The Holocene. <https://doi.org/10.1177/0959683618810390>
- Capuzzo, G., **Zanon, M.**, Corso, M.D., Kirleis, W., Barceló, J.A. *Highly diverse Bronze Age population dynamics in Central-Southern Europe and their response to*

regional climatic patterns. PLOS ONE 13. <https://doi.org/10.1371/journal.pone.0200709>

- **Zanon, M.**, Davis, B.A.S., Marquer, L., Brewer, S., Kaplan, J.O. *European Forest Cover During the Past 12,000 Years: A Palynological Reconstruction Based on Modern Analogs and Remote Sensing*. Front. Plant Sci. 9. <https://doi.org/10.3389/fpls.2018.00253>

2013

- Ravazzi, C., Marchetti, M., **Zanon, M.**, Perego, R., Quirino, T., Deaddis, M., De Amicis, M., Margaritora, D. *Lake evolution and landscape history in the lower Mincio River valley, unravelling drainage changes in the central Po Plain (N-Italy) since the Bronze Age*. Quaternary International 288, 195–205. <https://doi.org/10.1016/j.quaint.2011.11.031>
- Davis, B.A.S., **Zanon, M.**, Collins, P., Mauri, A., et al. *The European Modern Pollen Database (EMPD) project*. Veget Hist Archaeobot 22, 521–530. <https://doi.org/10.1007/s00334-012-0388-5>
- Davis, B.A.S., **Zanon, M.**, Collins, P., Mauri, A., et al. *Erratum to: The European Modern Pollen Database (EMPD) project*. Vegetation History and Archaeobotany 22, 531–531. <https://doi.org/10.1007/s00334-013-0408-0>

2011

- Ravazzi, C., Marchetti, M., **Zanon, M.**, Perego, R., Castellano, L., Deaddis, M., de Marinis, R., Quirino, T. *Lake evolution since the bronze age in the lower Mincio river valley and the Forcello etruscan harbour (central Po plain)*. Il Quaternario 24, 202–204.

OTHER ACADEMIC CONTRIBUTIONS

2019

- Dal Corso, M., Kirleis, W., Kneisel, J., Taylor, N., Wieckowska-Lüth, M., **Zanon, M.** (Editors) *How's Life? Living Conditions in the 2nd and 1st Millennia BCE*. Sidestone Press, Leiden.

2014

- **Zanon, M.** *Prime analisi palinologiche*, in: Poggiani Keller, R. (Ed.), Contadini, Allevatori e Artigiani a Tosina Di Monzambano (Mn) Tra V e IV Millennio a.C. - Una Comunità Neolitica Nei Circuiti Padani e Veneti. Grafiche Tagliani Stampa e Comunicazione per Acherdo Edizioni, Calcinato (Bs).
- **Zanon, M.** *Primi dati sulla storia della vegetazione in alta Val Brembana durante l'Olocene. Indagini palinologiche presso la Moia Armentarga (Carona, Bergamo)*. Notizie Archeologiche Bergomensi, 21, 5-22.

2011

- Perego, R., Badino, F., Deaddis, M., Ravazzi, C., Vallè, F., **Zanon, M.** *L'origine del paesaggio agricolo pastorale in nord Italia: espansione di *Orlaya grandiflora* (L.) Hoffm. nella civiltà palafitticola*. Notizie Archeologiche Bergomensi 19, 161–173.

TEACHING EXPERIENCE

2017

LandCover6k seminar/workshop and training course, Hebei Normal University, Shijiazhuang (China), March 6-11

Lecture “Surface samples and modern analogue reconstructions”

2016

University of Vienna, April 14th

Lecture “Pile dwellings south of the Alps: from sedimentary archives to landscape reconstructions” by invitation of the Workgroup for Underwater Archaeology.

ORGANIZATION AND MANAGEMENT OF ACADEMIC EVENTS

2013 - ongoing

Biweekly Colloquia (lectures by international invited experts) organised by the Graduate School “Human Development in Landscapes” & the CRC 1266

Panel member, selection of invited speakers

2017

International Open Workshop. Socio-Environmental Dynamics over the Last 12,000 Years: The Creation of Landscapes V. Kiel, Germany, March 20-24

Co-organizer of session “How’s life? Living conditions in Europe in the 2nd and 1st millennia BC”

2016

European Pollen Database meeting and training workshops. Aix-en-Provence, France, June 1-3

Co-organizer of workshop “EPD Surface samples and modern analogue reconstructions”

2015

International Open Workshop. Socio-Environmental Dynamics over the Last 12,000 Years: The Creation of Landscapes IV. Kiel, Germany, March 24-27

Co-organizer of session “Method development to reveal past plant-people interactions”

(O)RAL AND (P)OSTER CONTRIBUTIONS TO CONFERENCES AND WORKSHOPS

2019

- XX International Union For Quaternary Research (INQUA) Congress, Dublin (Ireland), July 25-31
 - (O) **Zanon, M.**, Feeser, I., Dreibrodt, S., van den Bogaard, C., Dörfler, W. *The Early Holocene Saksunarvatn ash: investigating the environmental effects of volcanic eruptions through annually laminated lake sediments.*
- International Open Workshop: Socio-Environmental Dynamics over the Last 12,000 Years: The Creation of Landscapes VI, Kiel, (Germany), March 11-15
 - (P) **Zanon, M.**, Dreibrodt, S., Groß, D., Corradini, E. *Towards a deeper understanding of Early Holocene landscape dynamics: the multifaceted contribution of palaeoenvironmental analysis within the CRC 1266.*
 - (P) Corradini, E., Panning, D., Wilken, D., Groß, D., **Zanon, M.**, Lübke, H., Rusch, K., Mecking, R., Pickartz, N., Erkul, E., Feeser, I., Dörfler, W., Rabbal, W. *Geophysics*

meets geoarchaeology: 3D facies mapping at the Mesolithic site of Duvensee (G2, B2).

- (O) Dreibrodt, S., Feeser, I., **Zanon, M.**, Dörfler, W., Groß, D., Lübke, H. *Analysis of lake sediments as tool for high-resolution reconstructions of human-environmental interactions- examples from the Mesolithic period in northern Germany (F2, B2).*

2018

- European Pollen Database workshop on modern pollen data (EMPD-2), La Tzoumaz (Switzerland), October 9-11
(hands-on workshop, no presentation planned)
- PAGES LandCover6ka Working Group (LC6k) and Palaeoclimate Modelling Intercomparison Project Joint Workshop, Sitges (Spain), September 25-27
(discussion workshop, only minor introductory presentation planned)
- European Association of Archaeologists (EAA) Annual Meeting, Barcelona (Spain), September 5-8
- (O) **Zanon, M.**, Feeser, I., Dreibrodt, S., Groß, D., Lübke, H., Dörfler, W. *The high-resolution sedimentary sequence from Poggensee (N-Germany): an insight into early Holocene landscape transformations from annually laminated lake sediments.*
- (O) Dreibrodt, S., Dörfler, W., Feeser, I., **Zanon, M.**, Groß, D., Lübke, H. *Early Holocene climate oscillations in central Europe: annually laminated lake sediments from Poggensee (northern Germany).*

2017

- Istituto Italiano di Preistoria e Protostoria, LII Riunione Scientifica “Preistoria e Protostoria in Lombardia e Canton Ticino”, Milano - Como (Italy), October 17-21
- (P) **Zanon, M.**, Badino, F., Dal Corso, M., Furlanetto, G., Ravazzi, C. *Land cover changes across the Copper Age – Bronze Age transition in the Garda Lake region.*
- (P) Wick, L., **Zanon, M.**, Ravazzi, C. *Neolithic human impact on the natural forests in the foothills of the western Lombardian Alps.*
- Pollen-Climate Model Inter-comparison Project (PC-MIP) Workshop, Caux (Switzerland), June 13-15
(hands-on workshop, no presentation planned)
- 80. Tagung der Arbeitsgemeinschafts Norddeutscher Geologen, Rendsburg (Germany), June 6-9
Zanon, M. Dörfler, W., Dreibrodt, W., Lübke, H., Groß, D., Meadows, J. *The Mesolithic landscape of Duvensee. Investigating early Holocene foraging camps within a dynamic lakeside environment.*
- LandCover6k seminar/workshop and training course, Hebei Normal University, Shijiazhuang (China), March 6-11
- (O) **Zanon, M.** *Coupling pollen spectra and remote sensing data - tree cover reconstructions using the Modern Analogue Technique (MAT)*

2015

- Mediterranean Palynology Symposium, Rome (Italy) 8-10 September
- (O) **Zanon, M.** Davis, B.A.S., Kaplan, J. *Coupling pollen spectra and remotely sensed data. An analog-based approach to reconstruct land cover through time.*

- International Open Workshop: Socio-Environmental Dynamics over the Last 12,000 Years: The Creation of Landscapes IV, Kiel, (Germany), March 24-27
 - (P) Heron, C., **Zanon, M.**, Dal Corso, M., Kirleis, W. *Tracking millet cultivation through GC-MS (gas chromatography-mass spectrometry). First data from the North Italian Bronze Age.*
- 2014
- Istituto Italiano di Preistoria e Protostoria, XLIX Riunione Scientifica “Preistoria e Protostoria del Caput Adriae”, Udine – Pordenone (Italy), October 8-12
 - (P) Poggiani Keller, R., Ruggiero, M.G., **Zanon, M.**, Piccoli, A., Kirleis, W. *Evoluzione forestale ed impatto antropico in area benacense tra età del rame ed età del bronzo. Primi dati palinologici dalla palafitta di Bande di Cavriana.*
 - Culture, Climate and Environment Interactions at Prehistoric Wetland Sites, Bern (Switzerland), 11-14 June
 - (P) **Zanon, M.**, Badino, F., Dal Corso, M., Furlanetto, G., Perego, R., Ravazzi, C., Kirleis, W. *The onset of the agricultural landscape in Northern Italy. Human-environment interactions in the Garda Lake region between Copper Age and the foundation of the first pile dwellings.*
- 2013
- Association for Environmental Archaeology, Autumn Conference, Kiel (Germany), September 27-29
 - (O) **Zanon, M.**, Davis, B.A.S., Kaplan, J. *A quantitative reconstruction of tree cover for Europe during the Holocene based on pollen and remote sensing data.*
 - International Open Workshop: Socio-Environmental Dynamics over the Last 12,000 Years: The Creation of Landscapes III, Kiel (Germany), April 15-18.
 - (P) Badino, F., Dal Corso, M., Furlanetto, G., Perego, R., Ravazzi, C., **Zanon, M.**, Kirleis, W. *Cultural and climate interactions in the last 5.5 ka vegetation history from the Garda Lake region (N-Italy). A comparison of new palynological records from three small lakes.*
- 2012
- Bergamo Scienza - X Edizione, Bergamo (Italy), October 5-21
 - (O) **Zanon, M.**, Ravazzi, C. *I più antichi pastori nell’Alta Val Brembana: prime analisi nelle torbiere del Pizzo del Diavolo.*
 - Associazione Italiana per lo Studio del Quaternario (AIQUA) Congress, Pisa (Italy), February 15-17
 - (O) **Zanon, M.**, Badino, F., Perego, R. and data contributors. *Forest cover, rural landscape development and climate change from the late Neolithic to the early Iron Age in the Garda area and the central Po plain.*
- 2011
- Le Palafitte: ricerca, conservazione, valorizzazione, Desenzano del Garda (Italy), October 6-8
 - (P) Perego, R., Deaddis, M., De Marinis, R.C., Rapi, M., Ravazzi, C., Vallé, F., **ZANON, M.** *Archaeobotanical analysis of the Bronze Age long-lasting lacustrine settlement of Lavagnone (Desenzano del Garda. Northern Italy).*
 - XVIII International Union For Quaternary Research (INQUA) Congress, Bern (Switzerland), July 21-27

- (O) Perego, R., Badino, F., Ravazzi, C., Vallé, F., **ZANON, M.** *The lacustrine record of the Bronze Age onset in N-Italy.*

2010

- Istituto Italiano di Preistoria e Protostoria, XLV Riunione Scientifica “Preistoria e Protostoria dell’Emilia Romagna”, Modena (Italy), October 26-31
- (O) **Zanon, M.**, Rottoli, M., Aceti, A., Badino, F., Castiglioni, E., Perego, R., Ravazzi, C., Valsecchi, V., Vescovi, E. *Ambiente e agricoltura fra Emilia occidentale e Lombardia nell’Età del Bronzo: analisi polliniche e macroresti vegetali.*
- XV Conference of the International Work Group for Palaeoethnobotany, Wilhelmshaven (Germany), May 31-June 5
- (O) **Zanon, M.**, Deaddis, M., De Marinis, R., Perego, R., Quirino, T., Ravazzi, C. *Etruscan settlements near Mantua in northern Italy: plant goods trade and early woodland history since the Iron Age.*
- European Geosciences Union (EGU) General Assembly 2010, Vienna (Austria), May 2-7
- (P) **Zanon, M.**, Deaddis, M., Perego, R., De Amicis, M., De Marinis, R.C., Marchetti, M., Quirino, T., Ravazzi, C. *Human civilisations, forest impact and river evolution in the Central Po plain (Mincio river system, N-Italy) during the last 3000 y.r*

2008

- XII International Palynological Congress and VIII. International Organisation of Palaeobotany Conference. Bonn (Germany), August 30-September 5
- (P) Perego, R., Jacomet, S., Kühn, M., Ravazzi, C., Wick L., **Zanon, M.**, Cinque, M. *Archaeobotanical analysis of Early Bronze Age layers in the pile-dwelling of Lavagnone (Desenzano del Garda, Northern Italy): comparison of macro- and microremains.*