



## André-Marie Dendievel – Curriculum Vitae

Nationality: French

Date of birth: July 26, 1990



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Profile and publications on [ResearchGate](#) and [Orcid](#)

### EDUCATION

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#### 2017: PhD in Physical and environmental Geography

University of Lyon (UJM, Saint-Etienne, France) / Institute of Botany (Innsbruck, Austria)

Title: *Holocene Palaeoenvironments of the Béage Plateau (Mézenec massif, Massif Central, France). Climatic changes and anthropogenic activities revealed by macrofossils from peat and lacustrine deposits [in French].* Under the supervision of H. Cubizolle (Prof., Univ. Lyon, France) and J.N. Haas (Prof., Univ. Innsbruck, Austria). Availability: <https://tel.archives-ouvertes.fr/tel-02115113/document>

Jury: Prof. M.-J. Gaillard-Lemdhahl (Linnaeus University of Kalmar, Sweden);

Prof. L. Lespez (Paris Est Créteil University, France); Prof. M. Lavoie (University Laval, Canada);

CNRS Research Directors: D. Galop (GEODE Lab, Toulouse, France); J.-F. Berger (EVS Lab, Lyon);

#### 2013: Master Degree in Archeo-Geo-Sciences with Honours, ranked 1<sup>st</sup>, Univ. Burgundy (Dijon, France)

#### 2011: Bachelor in Archaeology with Honours, University Lyon 2 Lumière (Lyon, France)

#### 2008: Science baccalaureate with Honours (Speciality: Earth and Biological Science), Lycée Saint-Jacques-de-Compostelle (Le Puy-en-Velay, France)

### SKILLS

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- ❖ **Evolution of depositional environments over time** (Late-Glacial/Holocene/Anthropocene)
  - (1) **Geomorphology** (detection of sites by GIS, pedestrian surveys, geology, geomorphology and geophysical approaches, microtopography, stratigraphy, manual and mechanical core drilling);
  - (2) **Sediment proxies: Palaeoecology** (plant macro-fossils, numerical ecology), **Organic matter** (LOI, TOC), **grain-size, geochemical data & pollution** (XRF, ICP-MS, AAS: regulatory metals, PCBs, PAHs, etc.)
  - (3) **Age-Depth modelling** (including <sup>14</sup>C, TL, OSL, <sup>137</sup>Cs, <sup>210</sup>Pb, etc...); (4) **Landscape history by GIS**
- ❖ **Spatial and temporal analysis & Data mining:** Advanced use of ArcGIS and QGIS. Coding, scripting and statistics with *R Studio*. Dataset creation and publication (*PANGEA*)
- ❖ **Office Automation and graphics:** *MS Office, Adobe Creative Suite (Illustrator, Photoshop)*
- ❖ **Languages:** French (mother tongue), English (fluent – Oxford test; several papers written in English), Italian (fluent), German (basics)

### PROFESSIONAL EXPERIENCE

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#### Since Oct. 2018: Post-doctoral Fellow

*French Office for Biodiversity (OFB) / CNRS / French National School for Public Works (ENTPE) LEHNA Laboratory of Ecology of Natural and Anthropogenic Hydrosystems (Geoscience Team) Consortium for spatial and temporal intercomparison of pollution in Rivers (Interpol Programme)*

Assignments: (1) **Data quality control, treatment and analysis of pollution trends** in rivers from 1945 to 2020 (incl. assessment of specific fluxes from organic and metal pollutants); (2) **Characterisation of deposition areas in rivers** (retrospective GIS study, biostratigraphy, geochemical analyses)  
Teaching (63h): Engineering Geology, Sediment pollution records, Palaeoenvironments (Master Level)

#### 2016-2018: Temporary Lecturer and Research Assistant in Geography (University of Lyon, France)

Laboratory: *UMR 5600 EVS - Environment, City, Society*

Teaching (378h): Environmental Issues, Applied Mapping and Statistics, Introduction to Landscape Studies, Environmental Management (Bachelor Level)

Research: Landscape and plant macrofossils changes during the *Holocene* (study of lake Afourgagh water levels in Morocco, Anthropogenic modifications of the Gourgon mire in Central France)

## Scientific community involvement

📄 Reviewer for *Scientific Reports*, *Quaternary International*, *Géomorphologie*, *Earth Science Bulletin*

**2018-2020 : Leader of Team A1 (Interpol Programme)** in charge of the spatio-temporal assessment of metal and organic pollution in French rivers since 1945; **Publication Director** for Dataset: <https://doi.pangaea.de/10.1594/PANGAEA.904277>; <https://doi.pangaea.de/10.1594/PANGAEA.914477>

**2018: Co-editor** of the *Proceedings of the 19th young geomorphologists days* (Lyon, France)

**2017: Junior Editor** of the 41<sup>st</sup> International Mire Excursion (IME) in France "Pleistocene and Holocene environmental changes on the Massif Central uplands"

**2016: Science Festival (St-Etienne, France)**, Manager and moderator of "Journeys of Geographers"

**2014-2016: Elected representative of PhD students**, UMR 5600 EVS Lab: Laboratory Council, Organisation of PhD Congresses, Workshops: "Environmental Changes", "Geomatics: models and spatio-temporal systems"

**2013-2016: Head of the project** "Palaeoenvironments and Geo-archaeology of the Plateau du Béage (Ardèche, France)" – Funding: DRAC / SRA Rhône-Alpes / European Regional Development Fund (FEDER)

**2014: Committee** of the Q9 AFEQ-CNF-INQUA international symposium (Lyon, France)

**2011-2020: Treasurer** of the Archaeological Research Group of the Velay (France)

## Supervision of Academic works

Field	Environmental Engineering	Geological Engineering	Palaeoecology and Biodiversity
Level	Technical Diploma DUT (2yrs post-Baccalaureate)	Master Degree	Master Degree
Student (year)	C. Roche (2018); N. Lervy-Mayere (2017)	J. Pruvost (2020); N. Noclin (2019); M. Mathey (2015)	M. Vallier (2019)

## Main Papers

*Topics: Human impact, biodiversity, organic/metal pollutants, pollution recovery, spatio-temporal analyses*

International papers	of which 1 <sup>st</sup> author	Datasets	Other papers / Colloquium / Posters / Others
13	8	4	9 30 8 5

**Dendievel A.-M. et al., 2020a.** Metal pollution trajectories and mixture risk assessed by combining dated cores and subsurface sediments along a major European river (Rhône River, France). *Environment International* 144, 106032. DOI: [10.1016/j.envint.2020.106032](https://doi.org/10.1016/j.envint.2020.106032)

**Dendievel A.-M. et al., 2020b.** Spatio-temporal assessment of the polychlorinated biphenyls (PCB) sediment contamination in the four main French river corridors (1945-2018). *Earth System Science Data* 12, 1153-1170. DOI: [10.5194/essd-12-1153-2020](https://doi.org/10.5194/essd-12-1153-2020)

**Dendievel A.-M. et al. 2020c.** From natural to cultural mires during the last 15 ka years: an integrated approach comparing <sup>14</sup>C ages on basal peat layers with geomorphological, palaeoecological and archaeological data (Massif Central, France). *Quaternary Science Reviews* 233, 106219. DOI: [10.1016/j.quascirev.2020.106219](https://doi.org/10.1016/j.quascirev.2020.106219)

**Dendievel, A.-M. et al., In press.** Late-Glacial and Early Holocene environmental changes affecting the shallow lake of La Narce du Béage (Ardèche, France). *Quaternary International*. DOI: [10.1016/j.quaint.2019.09.014](https://doi.org/10.1016/j.quaint.2019.09.014)

**Dendievel A.-M. et al., 2019.** Holocene palaeoecological changes and agro-pastoral impact on the La Narce du Béage mire (Massif Central, France). *The Holocene* 29 (6), 992-1010. DOI: [10.1177/0959683619831416](https://doi.org/10.1177/0959683619831416)

**Dendievel A.-M. & Chevalier D., 2018** - Topos et mémoires des deux rives de La Loire Amont (XVIIIe – XXe siècles). *Géographie et Cultures*, 105 : 91-112. URL : <https://journals.openedition.org/gc/6522>

## Other activities and hobbies

Running, tennis, archaeology and history