**André-Marie Dendievel - Curriculum Vitæ**

Nationality: French, Date of Birth: 26 July 1990

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## *CURRENT EMPLOYMENT*

**Since 01 November 2021 : Research Scientist (Normal Class, Full Position)** *at* ***ENTPE*** *(Graduate School of Civil, Environmental and Urban Engineering) in Vaulx-en-Velin (FR)****Research Unit: UMR CNRS 5023 LEHNA*** *– IAPHY (website:* [*https://umr5023.univ-lyon1.fr*](https://umr5023.univ-lyon1.fr/annuaire/details/1/247-dendievel-andre-marie) *)*

## *SKILLS*

**Main Research Topic**: impact of human facilities (dams, weirs) and anthropogenic legacies (pollution) on hydro-ecosystems over time and space

**Detailed Skills**: (1)Retrospective and statistical mapping, data mining and spatio-temporal analysis of socio-environmental data (land use, polluted sites and soils, industry) using GIS (*QGIS, R*),
(2) Geomorphological surveys, sampling (in particular core sampling), dating and multi-proxy analysis of sediments, (3) Reconstitution of pollution history and hydro-eco-sedimentary evolution of wetlands, (4) Publications and online databases.

**Spoken Languages**: French (mother tongue), English fluent (B2 – Oxford exam), Italian fluent (B2)

## *ACADEMIC QUALIFICATIONS*

**2017: PhD in Physical and Environmental Geography**
University of Lyon (UMR 5600 EVS, FRANCE) / Institute of Botany in Innsbruck (AUSTRIA)

PhD Title: *Paléoenvironnements holocènes du plateau du Béage (Massif Central, France). Les variations climatiques et activités anthropiques révélées par l'étude des macro-restes dans les sédiments tourbeux et la gyttja.* On line:<https://tel.archives-ouvertes.fr/tel-02115113>

Committee: M.-J. Gaillard (Univ. Kalmar, SWEDEN), D. Galop (GEODE, Toulouse, FR), L. Lespez (Paris-Est-Créteil, LGP, FR), J.-F. Berger (EVS, Lyon, FR), M. Lavoie (Univ. Laval, CANADA), H. Cubizolle (dir, EVS, Lyon, FR), J.N. Haas (co-dir, Univ. Innsbruck, AUSTRIA)

**2013: MSc Degree in Archaeo-Geo-Environment**, with Honours, Univ. of Burgundy (Dijon, FR)

**2011: Bachelor of Art History and Archaeology**, with Honours, University Lyon 2 (Lyon, FR)

**2008: Scientific baccalaureate**, with Honours, Lycée Européen Saint-Jacques (Le Puy-en-Velay, FR)

## *PREVIOUS PROFESSIONAL EXPERIENCIES*

**2021: Postdoctoral Position –** *University Lyon 1; Funding: BREAKTHROUGH IDEX AQUAPLAST
Research Lab: UMR CNRS 5023 LEHNA (Villeurbanne, FR)*

Research topic: Study of the distribution of microplastics along the Ain river (France)

Missions: (1) Characterisation of the distribution of plastics industries in the Ain catchment area, (2) Sampling of microplastics at the water-sediment interface in gravel bars, (3) Evaluation of microplastic concentrations & comparison with socio-sedimentary settings

Teaching: Earth Science and Ecology at ENTPE (30h), Geohistory of waters and forests (Master Mountains, USMB, 6h), Paleoecology applied to archaeology (Master ASA, UBFC, 6h)

**2018-2020: Postdoctoral Position –** *CNRS / ENTPE / OFB (Lyon-Paris-Rouen-Tours-Bordeaux)
Research Lab: UMR CNRS 5023 LEHNA (Villeurbanne, FR)*
Research topic: Study of sediment pollution along major Western European Rivers since 1945 (Loire, Seine, Garonne-Lot, Meuse, Rhine, Rhône, Scheldt Rivers)
Missions: (1) Temporal reconstruction of sedimentary pollution (PCBs, PAHs, metals) and sources using socio-environmental data along rivers.
Teaching: Earth Sciences at ENTPE (57h), Geohistory of waters and forests (Master Moutaines, USMB, 7h), Sedimentary pollution (Master Hydrology, Univ. Tours, 7,5h), Paleoecology applied to archaeology (Master ASA, UBFC, 6h)

**2016-2018: Temporary Lecturer and Research Assistant –** *University of Saint-Etienne
Research Lab: UMR CNRS 5600 EVS (Lyon, FR)* Teaching (378h, Ba Level): Environmental issues, Methodology, Landscape studies, Cartography and applied statistics, Environmental management Research topic: Evolution of wetland vegetation and landscape over the Holocene. Study areas: Middle Atlas (Morocco), Massif Central (France)

**2013-2016 – PhD Student with additional teaching activity** – *University of Lyon
Research Lab: UMR CNRS 5600 EVS (Lyon, FR)* Research topic: Evolution of wetland vegetation and geoarchaeology of the Béage plateau since 12,000 years (Holocene). Study area: Upper Ardèche (France).
Teaching (122h, Ba Level): Statistical cartography, Landscapes, Biogeography

## *COLLECTIVE RESPONSABILITIES*

**Since 2022:** Member of the Scientific Council of the GIS EDEEMS (environmental assessment of waste, effluents, materials, sediments and polluted soils); <https://www.eedems.com/>

**Since 2022:** Member of the Scientific Council of the Conservatoire d'Espaces Naturels Bourg-Fr-Comté

**Since 2020:** Member of the editorial board of the[*BIOdiversité du Massif central*](https://revues.bu.uca.fr/index.php/BIOM) *Journal*

**2014-2016:** PhD students representative in UMR CNRS 5600 EVS: councils, organisation of conferences, Active member of "Environmental Change" and "Spatio-temporal Models" workshops

**Since 2011:** Assistant Treasurer of the Groupe de Recherche Archéologique Vellave (GRAV)

## *PUBLICATION SYNTHESIS*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Papers | Book Chap-ters | Collo-quiumpapers | Oral presen-tations(COM) | Posters(AFF) | Data Bases (BDD) | Other prod.(AP) |
| Inter-national journals | Including 1er author | National and Regional journals |
| 21 | 15 | 12 | 4 | 16 | 37 | 11 | 5 | 40 |

## *PAPERS in INTERNATIONAL JOURNALS*

### 2023

**Dendievel A.-M.,** Wazne M., Vallier M., Mermillod-Blondin F., Mourier B., Piégay H., Winiarski T., Krause S., Simon L., **2023** – Environmental and land use controls of microplastic pollution along the gravel-bed Ain River (France) and its “Plastic Valley”. *Water Research* 230, 119518. DOI: [10.1016/j.watres.2022.119518](https://doi.org/10.1016/j.watres.2022.119518)

### 2022

Cubizolle H., Argant J., Serieyssol K., Fassion F., Oberlin C., **Dendievel A.-M.,** Deng-Amiot Y., Beaudoin C., Hajdas I., Haas J.N., **2022**- Environmental changes during the Late-Glacial and Early Holocene at the Gourd des Aillères mire in the Monts du Forez Mountains (Massif Central, France). *Quaternary International* 636: 9-24. DOI: [10.1016/j.quaint.2021.03.033](https://doi.org/10.1016/j.quaint.2021.03.033)

Dhivert E., **Dendievel A.-M.,** Desmet M., Devillers B., Grosbois C., **2022** – Hydrosedimentary dysfonctions as a key factor for the storage of metallic contaminants in mountain rivers (Bienne River, Jura Mountains, France). *Catena* 213, 106122. DOI : [10.1016/j.catena.2022.106122](https://doi.org/10.1016/j.catena.2022.106122)

Delile H., **Dendievel A.-M.,** Yari A., Masson M., Miège C., Mourier B., Coquery M., **2022** – Legacy-micropollutant contamination levels in major river basins based on findings from the Rhône Sediment Observatory, *Hydrological Processes* 36:e14511. DOI: [10.1002/hyp.14511](https://doi.org/10.1002/hyp.14511)

**Dendievel A.-M.,** Argant J., Dietre B., Delrieu F., Jouannic G., Lemdahl G., Mennssier-Jouannet C., Mille P., Haas J.N., Cubizolle H., **2022** – Multi-proxy study of the Pialeloup Bog (SE Massif Central, France) reveals long-term human environmental changes affecting peat ecosystems during the Holocene. *Quaternary International* 636: 118-133. DOI: [10.1016/j.quaint.2020.11.027](https://doi.org/10.1016/j.quaint.2020.11.027)

**Dendievel A.-M.,** Grosbois C., Ayrault S., Evrard O., Coynel A., Debret M., Gardes T., Euzen C., Schmitt L., Chabaux F., Winiarski T., Van Der Perk M. and Mourier B., **2022 -** Key factors influencing metal concentrations in sediments along Western European Rivers: a long-term monitoring study (1945-2020*). Science of the Total Environment* 805: 149778. DOI : [10.1016/j.scitotenv.2021.149778](https://doi-org.acces.entpe.fr/10.1016/j.scitotenv.2021.149778)

**Dendievel A.-M.,** Serieyssol K., Dietre B., Cubizolle H., Quiquerez A., Haas J.N., **2022** – Late-Glacial and Early Holocene environmental changes affecting the shallow lake basin of La Narce du Béage (Ardèche, Massif Central, France). *Quaternary International* 636 :52-68. DOI: [10.1016/j.quaint.2019.09.014](https://doi.org/10.1016/j.quaint.2019.09.014)

### 2021

Vauclin S., Mourier B., **Dendievel A.-M**., Marchand P., Vénisseau A., Morereau A., Lepage H., Eyrolle F., Winiarski T., **2021**. Temporal trends of legacy and novel brominated flame retardants in sediments along the Rhône River corridor in France. *Chemosphere* 271: 129889, DOI: [10.1016/j.chemosphere.2021.129889](https://doi.org/10.1016/j.chemosphere.2021.129889)

Vauclin S., Mourier B., **Dendievel A.-M**., Noclin N., Piégay H., Marchand P., Vénisseau A., de Vismes A., Lefèvre I. Winiarski T., **2021**. Depositional environments and historical contamination as a framework to reconstruct fluvial sedimentary evolution. *Science of the Total Environment* 764: 142900, DOI: [10.1016/j.scitotenv.2020.142900](https://doi-org.acces.entpe.fr/10.1016/j.scitotenv.2020.142900)

### 2020

**Dendievel A.-M.,** Mourier B., Coynel A., Evrard O., Labadie P., Ayrault S., Debret M., Koltalo F., Copard Y., Faivre Q., Gardes T., Vauclin S., Budzinski H., Grosbois C., Winiarski T., Desmet M., **2020** – Spatio-temporal assessment of the polychlorinated biphenyl (PCB) sediment contamination in four major 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.**, Mourier B., Dabrin A., Barra A., Bégorre C., Delile H., Hammada M., Lardaux G., Berger J.-F., **2020**. Dataset of natural metal background levels inferred from pre-industrial palaeochannel sediment cores along the Rhône River (France). *Data In Brief* 10256, DOI: [10.1016/j.dib.2020.106256](https://doi-org.acces.entpe.fr/10.1016/j.dib.2020.106256)

**Dendievel A.-M**., Mourier B., Dabrin A., Delile H., Coynel A., Gosset A., Liber Y., Berger J.-F., Bedell J.-P., **2020 –** 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.,** Jouffroy-Bapicot I., Argant J., Scholtès A., Tourman A., de Beaulieu J.-L., Cubizolle H. **2020** – From natural to cultural mires during the last 15 ka years: an integrated approach comparing 14C ages on basal peat layers with geomorphological, palaeoecological and archaeological data (Eastern Massif Central, France). *Quaternary Science Reviews* 233, 106219, DOI: [10.1016/j.quascirev.2020.106219](https://doi.org/10.1016/j.quascirev.2020.106219)

Gardes T., Debret M., Copard Y., Patault E., Winiarski T., Develle A.-L., Sabatier P., **Dendievel A.-M.**, Mourier B., Marcotte S., Leroy B., Portet-Koltalo F., **2020** – Reconstruction of anthropogenic activities in legacy sediments from the Eure River, a major tributary of the Seine Estuary (France). *Catena* 190: 104513. DOI: [10.1016/j.catena.2020.104513](https://doi.org/10.1016/j.catena.2020.104513)

### 2019

**Dendievel A.-M**., Dietre B., Cubizolle H., Hajdas I., Kofler W., Oberlin C., Haas J.N., **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)

### 2018

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

Defive E., **Dendievel A.-M.,** Berger J.-F., Barra A., Bouvard-Mor E., Cubizolle H., Raynal J.-P., **2018** – 1500 d’histoire fluviale dans la vallée du Gage (bassin supérieur de la Loire, SE du Massif central, France) : approche pluridisciplinaire. *Géomorphologie : R,P,E,* 24 (4), 329-350. DOI: [10.4000/geomorphologie.12621](https://doi.org/10.4000/geomorphologie.12621)

### 2017

**Dendievel A.-M., 2017** - Paléoenvironnements holocènes du plateau du Béage (massif du Mézenc, Massif central, France). Bulletin de la Société préhistorique française 114 (4) : 753-755. <https://www.persee.fr/doc/bspf_0249-7638_2017_num_114_4_14837>

Defive E., Berger J.-F., Poiraud A., Barra A., Bouvard E., Virmoux C., Voldoire O., Garreau A., Miras Y., Beauger A., Cabanis M., Gunnell Y., Braucher R., **Dendievel A.-M.**, Nomade S., Delvigne V., Lafarge A., Liabeuf R., Guillou H., Raynal J.-P., **2017** – [Les flux hydro-sédimentaires dans le bassin supérieur du fleuve Loire (Massif Central, France) au cours des trois derniers millénaires : archives séquentielles, chronologie et corrélations régionales](http://journals.openedition.org/quaternaire/8304). *Quaternaire* 28 (3): 373-388. DOI: [10.4000/quaternaire.8304](https://doi.org/10.4000/quaternaire.8304)

### 2016

Cubizolle H., Latour-Argant C., Delachanal S., Argant J., **Dendievel A.-M.**, Dietre B., Thiebaud G., Galet P., **2016 –** Développement de l’emprise agro-pastorale et changements hydro-pédologiques à l’Holocène récent : l’exemple de la vallée du ruisseau des Barges dans le Massif Central oriental (France). *Quaternaire* 27 (2): 91-109. DOI: [10.4000/quaternaire.7555](https://doi.org/10.4000/quaternaire.7555)

### 2015

**Dendievel A.-M.,** Cubizolle H., Dietre B., Gaertner V., Gallice F., Jouannic G., Haas J.N.,**2015 –** Changements environnementaux du Tardiglaciaire à l’Holocène moyen dans le Velay oriental : la séquence sédimentaire de La Narce du Béage en Ardèche (Massif Central, France). *Quaternaire* 26 (4): 263-276. DOI: [10.4000/quaternaire.7430](https://doi.org/10.4000/quaternaire.7430)