

## Curriculum Vitae

**Mattielli - Carliez Nadine, Dina, Claude**



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### Full Professor at ULB – Department ‘Geosciences, Environment and Society’ - (Laboratoire G-Time)

Director of the Laboratoire G-Time (Geochemistry: Tracing by Isotopes, Minerals and Elements)

ULB Coordinator of the BIGE analytical platform ULB – VUB

UNamur Invited Professor.

### Personal details

Date and Place of birth: 10 August 1967, Ixelles, Belgium - Nationality: Belgian  
Language: French, English, Dutch  
Marital Status: Married, 2 children born on June 23, 2001  
Professional address: Université Libre de Bruxelles  
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### Awards and Distinctions:

2018: Award from the Fondation Wiener-Anspach  
2018: SEGH Fellow since 2018  
2009: Co-promoter of awards of Inbev-Latour prize  
1996: Nominated to the Solvay Awards  
1996: Agathon De Potter Awards - Académie Royale de Belgique

### Professional and academic experience

2016 -Today: Full Professor; Director of the Laboratoire G-Time; Présidente de filière GEOL from 2016 to 2020; President of the jury for the GEOL Master degree; UNamur Invited Professor; Member of the “bureau de la Faculté des Sciences” (since 2018)  
2010-2011: Vice-Head of the DSTE (Department of Earth and Environmental Sciences)  
2008-2009: “Chargée de cours visiteur temps partiel” - UNamur, Geology Department  
2006-2015: Associate Professor  
2007-2010: Head of the Department (DSTE)  
Head of the research unit: ‘Isotopes: Petrology and Environment’ (IPE)

Foreign scientific expeditions and lab visits (stays > 1 month) : Kerguelen Islands - Southern Indian Ocean (Dec 1991- Jan/Feb 1992); Paris - France (Institut de Physique du Globe) (Oct. 1993); St Etienne - France (Université J. Monnet) (3 x 1 month in 1991-1993) and Woods Hole - USA (Woods Hole Oceanographic Institute) (Oct. 1995); Lyon – France (ENS) (Jan. 1998 – Jan. 1999); Shorter field works in Portugal (Alentejo in June 2012), South of Africa (Barberton, February 2013), in Mauritania (Atar desert, November 2013), Marocco (March 2015), Antarctica (Nov-Dec 2017).

### Education

1997 : Post-doctoral fellow at the Vrije Universiteit (VU) (Amsterdam)  
1990-1996: ULB Teaching Assistant - PhD dissertation in Geology - Grade: “la plus grande distinction” – ‘Magmatism and metasomatism associated with the Kerguelen Plume: Contribution of geochemical characteristics from basic et ultrabasic xenoliths’ (Dr. D. Weis, “Maître de Recherches au F.N.R.S.” - advisor)  
1985-1989: Université Libre de Bruxelles  
Master Thesis: ‘Interpretation of cristallographic characteristics of the occidental ice margin from the Greenlandic Inlandsis’  
Undergraduate in Geology - Grade: “grande distinction”

### Publications and Abstracts

H index: 30 – 2995 citations on Scopus. 93 cited publications in peer-reviewed journals (3 Nature papers included), 7 accepted papers and 2 in review, 2 book chapters, more than 100 published abstracts for international conferences (not entirely reported).

## Research Experience

### Topics

- Isotopic tracers of Trace Metal Element (TME) for the study of their biogeochemical cycling in Atmosphere and Ocean; and in the soil-plant-atmosphere system;
- Geochemical and geodynamic evolution of the Mantle plumes (Kerguelen, Açores, Cape-Verde);
- Paleo-climate, paleo-environment and geoarchaeological reconstructions based on isotopic and geochemical tools.
- Evolution of the early terrestrial crust and dynamics of the mantle (komatiites).

### Invited seminars/conferences

Invited speaker for seminars at the VU (Amsterdam, 1997), ENS (Lyon, 1999), Univ. J. Monnet - St Etienne (2000, 2011), Nancy (LMTG) (2008), Toulouse (GET) (2008), Liège (2009), Fribourg (Suisse, 2014), Oxford (2017), UCL (2019).

Invited talks at the Goldschmidt 2010 Conference, and at the SEGH 2013 Conference.

Keynote Conference at the Université de Lille – Côte d’Opale, podcasted from Lille to Dunkerque and Wimereux, 2011.

Keynote Conference of the Workshop ‘Environmental Isotope Geochemistry’ at Departamento de Geologia - Universidade de Lisboa in 2012.

Keynote Conference of the symposium JJC6 - SFIS 2013 (Société Française des Isotopes Stables).

Large public conference (CEPULB – ULB) – April 2016.

PI of the 32<sup>nd</sup> International Conference on Environmental Geochemistry and Health (SEGH) organized in Brussels – ULB – 2016 July 4-8.

### Supervision

- 7 FNRS Post-doctoral fellows “Chargé de recherche” (Baptiste Debret, Luc Doucet, Julien Berger, Vinciane Debaille, Virginia Panizzo) ;
- 1 Post-doctoral fellow (MIS FNRS) (Sophie Verheyden); 1 Post-doctoral fellow (MIS FNRS) (Stefania Gili);
- 4 ‘Assistant’ – Doctoral fellows (Jérôme Petit; Claire Duchemin; Aubry Vanderstraeten and Sibylle Boxho with Steeve Bonneville as co-advisor); 11 Doctoral fellows (6 FNRS & FRIA), 5 in co-supervision with the Univ. J. Fourier, Grenoble (C. Chauvel), UCL (B. Delvaux) and UNamur;
- 40 Master theses (2 or 3 per year) (DGES), 2 DEA (ULB, ULg), 2 DES, 1 DSR (Université Lille – Côte d’Opale); 2 ongoing.
- Thesis committees (PhD and HDR): 14 PhD committees at ULB (in Sciences); 2 invited PhD external at VUB; 16 invited PhD external (Lyon; KUL; Groningen, Toulouse, Lille, Grenoble, St Etienne, Bordeaux, Lyon, Lisbonne, Ghent...)

### Scientific Committees, peer referees, ...

- Member of FRS-FNRS Committees since 2014 (member of SEN-4; President of the FRIA committee (Earth Sciences from 2017-2019); member of the FRIA committee).
- Member of the ANR committee from 2018 to 2020
- SEGH executive board member since 2013
- Secretary of the National Committee of Geological Sciences from Belgium;
- Member of national committees: BELQUA, Geologica Belgica;
- Member of ULB Committees (“conseil d’administration” in 2006-7, committees, Faculty bureau member since 2018; Présidente de filière from 2016 to 2020).
- Member of geochemical Societies (GSA, MSA)

Assessment of proposals for ANR (France) since 2011, for the Alexander von Humboldt Foundation (2008), and for the Deutsche Forschungsgemeinschaft (German Research Foundation).

Main convener of the SEGH Conference organized in Brussels in 2016; Convener of the session 3b of the Goldschmidt 2015 Conference and Goldschmidt 2021 Conference; Convener of the graduate school UNITER day (ULB-ULg-UCL 2008); Chairwoman of the workshop « Heavy stable isotopes (Zn, Cu, Cd, Fe, Pb): tracers of source and biogeochemical processes in the environment » (May 20, 2008 – 30 participants); Chairwoman of the BELQUA annual meeting ; Chairwoman of the FNRS “geochemistry group” contact days every year since 2015.

Reviewer for the international journals: Environmental Science & Technology, GCA, Geostandards and Geoanalytical Research, Chemical Geology, EPSL, Geoderma, GCA, Gondwana Research,...

### Scientific projects

2 ARC; 6 FRFC (FNRS); 1 MIS (FNRS); 6 FNRS research personal grants; CGRI, BRI travel grants; 3 International Chairs from the BRIC - ULB; active participation to the calibration program GEOTRACES and EC2CO CYTRIX 2007; 3 Belspo projects; 1 Inbev-Latour price; 1 Wiener-Anspach Grant; member of 1 PAI grant (Planet-Topers); 1 FNRS “Grand Equipement-Infrastructure”; and two EOS (co-PI ET-Home and Crumble).

## Teaching Experience

Mnemonic - titles	ULB	Nber of Students	Tasks (given by NM)
GEOL-F211 : Eléments de Pétrologie Magmatique et Métamorphique	GEOL2, GEOG2, GEOG3	21	Th : <u>12h</u> ; TP : 36h ; <u>Exc</u> : 12h
GEOL-F305: Pétrologie Générale	GEOL3	15	Th : <u>36h</u> ; TP : 56h
GEOL-F411 : Géochimie isotopique : datation et traçage du système Terre (shared with V. Debaille)	GEOL4	12	<u>Exc</u> : 10 jours
GEOL-F412: Géodynamique Chimique Globale (shared with D. Weis from UBC - Canada)	GEOL4, 5	12	Th : 12+ <u>2h</u> ; Exer <sup>#</sup> : 10h ; TP : 36h
GEOL-F527: Traçage isotopique des cycles biogéochimiques (shared with S. Goderis-VUB & L. André-MRAC)(class in reconfiguration)	GEOL4, 5	15	Th : 20h ; Exer <sup>#</sup> : 10h ; TP : <u>10h</u> +8+8h
ENVI-F454: Energie : Ressources et Environnement (shared with M. Huart)	ENVI4E, ENVI5E, GEOL5A	100	Th : ( <u>3h</u> ) 21h ; TP : 8+16h
ENVI-F529: Ressources : Energie et Environnement (shared with M. Huart)	IGEAT3P, 4, 5	20	Th : 24h ; <u>Exc</u> : <u>8h</u>
SGOLB307 : Pétrologie Magmatique et Métamorphique	<b>FUNDP</b> – GEOL3	10	<u>30h</u>

I shared the half of the lessons ENVIF454 with Michel Huart until 2019; since then, I give only 3 hours in ENVI-F454, and lead a new class ENVI-F529 (also shared with Michel Huart, who gives 4 hours)

Due to the retirement of one of our colleagues, the class GEOL-F527 is currently reorganized in another format for the new Master program foreseen for a shared ULB-VUB master in Geosciences.

*#: Exer.* Means Exercices when reading groups are organized around scientific publications; *Exc.* Means Excursions.