



# Sarah Miéville

## Research scientist | Biology

As a PhD candidate in soil science and ecology, I am dedicated to an interdisciplinary approach that fosters collaboration across local, regional, and academic levels. My teaching experience in the biogeosciences Master's program has reinforced my commitment to linking theory with real-world applications. I aim to create a dynamic, practical learning environment that equips students to tackle complex environmental challenges.

« Creativity is intelligence having fun »

Albert Einstein

## Contact

Age : 31

Married, one Child

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## Formal education

### Ph.D in Biology

Orientation: Functional Ecology

Specialization: Pedology

University of Neuchâtel 2024

### M.S. Biology (taught in English)

Orientation: Ecology & Environment

Specialization: Chemical Ecology

University of Neuchâtel 2018

### B.S. Science and sports

University of Neuchâtel 2016

## Profile

- +4 years of experience in teaching with progressive responsibility in leadership
- Motivated, team spirit, adapts quickly to a work environment.
- Computer skills: Microsoft office pack, Canva, Webmail, Moodle, Illustrator, and R
- Ability to train, motivate and supervise teams
- Acknowledged as a teammate with cheerful willingness

## EXPERIENCE

### Teaching experience

University of Neuchâtel - Student supervision

#### 2024

- O.Joye, MSc in MSc in Biogeosciences, University of Neuchâtel and University of Lausanne, Switzerland.

#### 2022-2023

- L.Centeno, MSc in Biology, University of Neuchâtel and University of Lausanne, Switzerland.
- N.Rytz, MSc in Biology, University of Neuchâtel and University of Lausanne, Switzerland.
- N.Pasche, MSc in Biogeosciences, University of Neuchâtel and University of Lausanne, Switzerland.

#### 2021-2022

- D.Vuigner, MSc in Biology, University of Neuchâtel and University of Lausanne, Switzerland.
- L.Poggiali, BSc in Natural Systems, University of Neuchâtel, Switzerland.

#### 2020-2021

- N.Pasche, BSc in Natural Systems, University of Neuchâtel, Switzerland.
- R. Tuchs Schmid, MSc in Biogéosciences, University of Neuchâtel and University of Lausanne, Switzerland.
- M. Fazzari, MSc in Biogéosciences, University of Neuchâtel and University of Lausanne, Switzerland.
- P.Kipf, MSc in Biogéosciences, University of Neuchâtel and University of Lausanne, Switzerland.

### Publications

Ready to be submitted in European Journal of soil biology (2024)

Semeraro, S., Le Bayon, R.-C., Rytz, N., Centeno, L., Lanz, S., Rasmann, S., Soil arthropods along elevation gradients : biological and functional diversity linked to soil quality

Ready to be submitted in New Phytologist (2024)

Semeraro, S., Fazzari, M., Defossez, E., Glauser, G., Le Bayon, R.-C., Rasmann, S., Phytochemical variation and decomposition of leaves and roots in mountain environments

Under review in Geoderma (2024)

Semeraro, S., Tuchs Schmid, R., Gobat, J.-M., Rasmann, S., Le Bayon, R.-C., Temporal Changes in Soil Properties: Insights from a 37-Years-Old Swiss Soil Library. Available at SSRN: <https://ssrn.com/abstract=4927640>

Semeraro, S., Kipf, P., Le Bayon, R. C., & Rasmann, S. (2023). Humus forms and organic matter decomposition in the Swiss Alps. International Journal of Plant Biology. Accepted for publication on the 28th of July 2023

# Languages

- **English:** fluent
- **French:** fluent (native language)
- **Italian:** fluent (native language)
- **German:** basic

Semeraro, S., Kipf, P., Le Bayon, R. C., & Rasmann, S. (2023). Solar radiation explains litter degradation along alpine elevation gradients better than other climatic or edaphic parameters. *Frontiers in Microbiology*, 14, 1152187.

Semeraro, S., Kergunteuil, A., Sánchez-Moreno, S., Puissant, J. ., Goodall, T., Griffiths, R. ., & Rasmann, S. (2022). Relative contribution of high and low elevation soil microbes and nematodes to ecosystem functioning. *Internation journal of Plant Biology*, 36(1), 1-13.

## Grants

2021 Bourse Égalité, 5'000 CHF to finance training & soil analysis in X-ray diffraction at the Swiss Center for Electronics and of Electronics and Microtechnology (CSEM) in Neuchâtel, Switzerland.

## Awards

SNSF Scientific Image Competition 2020 Jury's distinction for "Six feet under: the hidden treasure"

## Scientific comissions

Since 2019

Member of the biogeoscience scientific committee, Master of Science in Biogeosciences, University of Neuchâtel and University of Lausanne, Switzerland.

*The Scientific Committee comprises 4 representatives of the teaching staff of the University of Lausanne, 4 representatives of the teaching staff of the University of Neuchâtel, 1 representative of the intermediate staff of the University of Lausanne, 1 representative of the intermediate staff of the University of Neuchâtel, 1 representative of the student body of the University of Lausanne and 1 representative of the student body of the University of Neuchâtel, making a total of 12 members.*

*Its role is to carry out the following tasks:*

- *Scientific management of the Master's program*
- *Establishment of the Study Plan and its content*
- *Drawing up the MSc Study Regulations*
- *Verification of non-automatic admission files"*
- *Establishment of joint course timetables between the two universities*

# SCIENTIFIC MEETINGS PARTICIPATION

2024	<b>Centennial Celebration and Congress of the International Union of Soil Sciences 2024</b> May 19-21, Florence, Italy
2023	<b>Wageningen Soil conference 2023</b> August 28 - September 1, Wageningen, the Netherlands
2022	<b>Rencontres doctorales « Changements climatiques et sociétés »</b> (NE) <b>20th Swiss Geoscience Meeting</b> (Lausanne), talk (19.11.2022) <b>22nd World Congress of Soil Science</b> , (ONLINE), flash talk (Youtube) and poster presentation with live text chat & video. <b>Global Symposium on Soil Biodiversity</b> , (ONLINE), attendance only
2021	<b>Annual PhD Students Meeting</b> , Doctoral School in Life Sciences, University of Neuchâtel, talk <b>19th Swiss Geoscience Meeting (ONLINE)</b> , poster presentation with text chat & video chat discussion
2020	<b>18th Swiss Geoscience Meeting</b> (ONLINE), poster presentation with text chat & video chat discussion

# Informations

Driving licence, type B

## Swiss certifications

- **BLS-AED (SRC)** : first aid
- **Plus-Pool**: swimming pool lifesaving
- **Sports instructor**: swimming, ski, snowboard, school sports

## Personal interests

- Teaching
- Swimming
- Hiking
- Climbing
- Ski/Snowboard
- Sailing
- Wakesurf / Stand-up paddle
- Cinema
- Reading
- Handicrafts

## References

**Sergio Rasmann**

Professor

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**Claire Le Bayon**

Professor

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## EVENT ORGANIZATION

- 2023 **Rencontres doctorales « Changements climatiques et sociétés »**, October 2023 Edition, University of Neuchâtel, Faculty of Science **Passeport-Vacances Neuchâtel**, Functional Ecology Laboratory, Facilitator and workshop manager for the 2023 edition, Les mystères du sol, <https://www.passeportvacancesne.ch/>
- 2022 **Passeport-Vacances Neuchâtel**, Functional Ecology Laboratory, Facilitator and workshop manager for the 2022 edition, Les mystères du sol, <https://www.passeportvacancesne.ch/>
- 2021 **Annual PhD meeting 2021**, organizing committee, theme: mental health and personal development. University of Neuchâtel, Institute of Biology, Switzerland. Organized together with Prof. Sergio Rasmann, doctoral program coordinator Pauline Fritsch and two other PhD candidate: Clément Duckert and Estelle Bruni (Laboratory of soil biodiversity).  
  
**Passeport-Vacances Neuchâtel**, Functional Ecology Laboratory, Facilitator and workshop manager for the 2020 edition, Les mystères du sol, <https://www.passeportvacancesne.ch/>
- 2018 **Volunteer, Biology 18**, Neuchâtel, CH, see <http://www.biology18.ch/>  
**Volunteer, SeeDs** (Symposium of Ecology and Evolution Doctoral Students), CH, See <https://biologie.cuso.ch/ecologie-et-evolution/seeds/2018/>

## TRAINING PROGRAM

### University of Neuchâtel - Doctoral School in Life Sciences

- 2023 **Becoming a teacher: an introduction to University teaching for PhD students**, given by Marika Fenley, Director of the Teaching and Learning Unit, UniNE
- 2022 **Mindful scientific writing ONLINE**, given by Ana Pineda, Ph.D.  
**Mindful productivity for scientists ONLINE**, given by Ana Pineda, Ph.D.  
  
**Scientific writing**, Marc Matter, HEG Fribourg, CTC University Hospital Zurich, and ZUW University of Bern
- 2021 **Career Compass**, Dr. Thomas Teichler, Lead to Trust Coaching and Training, Zürich  
  
**Emotional intelligence for a successful academic or non-academic career**, Dr Tanja Wranik, psysinfo, <https://www.psyinfo.ch>  
  
**eSkills**, eSkills SARL, 62, route de Frontenex, Geneva, SWITZERLAND +41.22.700.12.01 - [www.eskills.ch](http://www.eskills.ch)  
  
**Boost your LinkedIn profile**, Maura Hannon, freelancer  
  
**Let's create a blog together!** DR. Pauline Fritsch, <https://academiac.net/>
- 2020 **Open Science: improve your research workflow to increase transparency and reproducibility**, Prof. Alexandre Reymond, UniNe  
  
**Workshop on Women in Research**, Morgane Wüthrich & Jennifer McClung  
  
**Proactive management of relationships and networks**, Dr Tanja Wranik, psysinfo, <https://www.psyinfo.ch>
- 2019 **Beyond standard texts: writing grant proposals and review articles**, Philipp Mayer, science-textflow, Winterthur