

Jonathan Cazabonne

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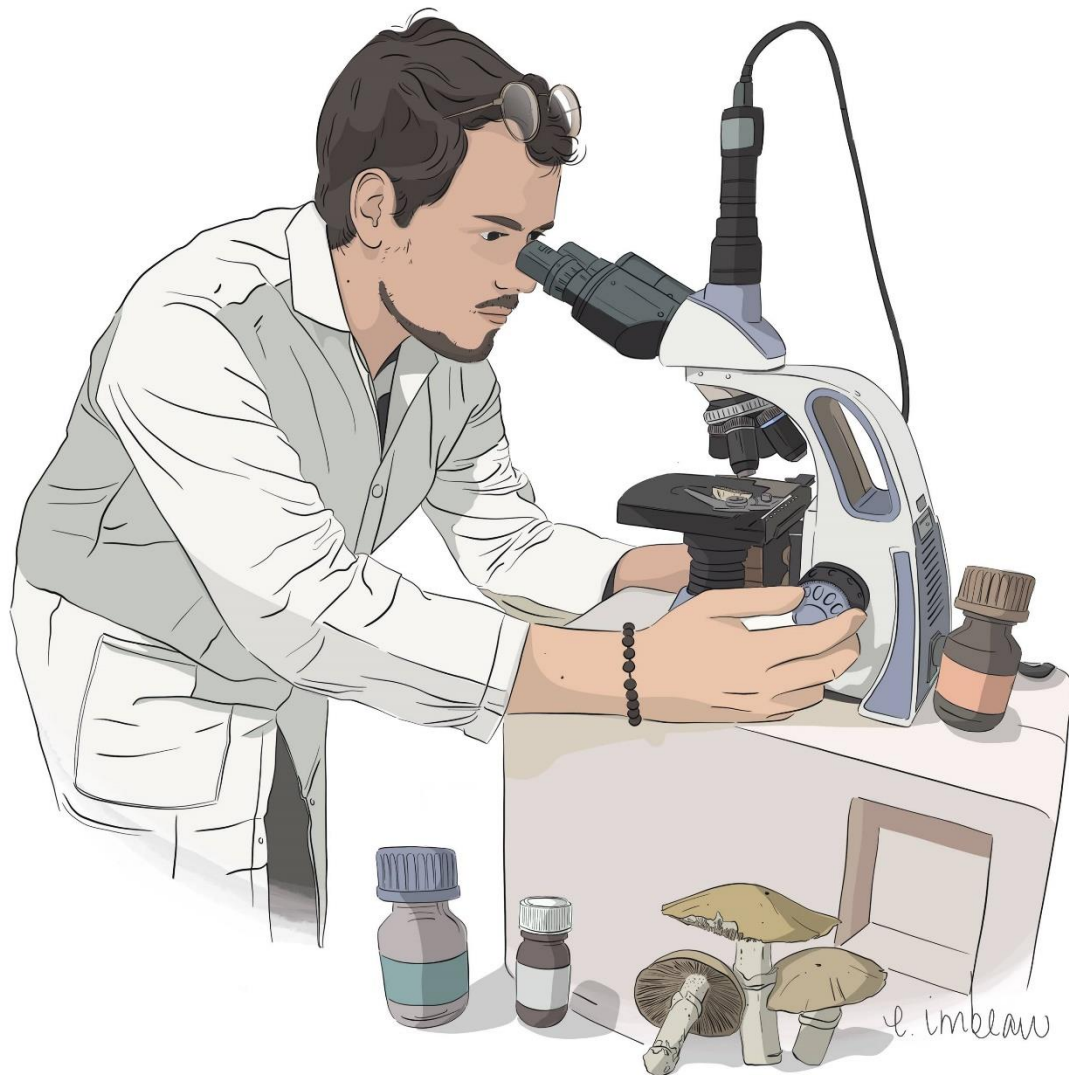


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CURRENT POSITION

M.Sc thesis under the supervision of Miguel Montoro Girona (supervisor) and Annie DesRochers (co-supervisor): **Soil fungal communities of Abitibi Esker Forests.**

PERSONAL INFORMATION

Family name, First name: Cazabonne, Jonathan.

Researcher unique identifier(s): orcid.org/0000-0001-9056-4368

Nationality: French

Date of birth: 23 June 2000

Born in Saint-Affrique, Aveyron, France

Mailing:

- *principal:* 1-131 Rue Gourd, Amos, J9T 3V3, QC, Canada
- *secondary:* 9 avenue de Moussac, 12250, Roquefort-sur-Soulzon, Lauras.

Emails:

- jonathan.cazabonne@uqat.ca (institutional)
- cazabonne.jonathan@gmail.com

Links: [Website](#) | [ORCID](#) | [ResearchGate](#) | [Google Scholar](#) | [Twitter](#) | [LinkedIn](#) | [Scoop.it](#) | [Loop](#) | [Facebook](#) | [Academia](#) | [Flickr](#) | [Chair AFD](#) | [CEF](#) | [IRN & IRL Cold Forest Web of Science](#)

I. EDUCATION

- 2022 – present **M. Sc.** Forest Ecology, [Université du Québec en Abitibi-Témiscamingue \(UQAT\)](#), [IRF-GREMA](#), Québec, Canada.
Research advisors: [Miguel Montoro Girona](#) and [Annie Desrochers](#).
- 2021 – 2022 **M. Sc.** Ecology and Evolution, 1st semester, independent candidate, [Paul Sabatier University](#), Toulouse, France.
Research advisors: [Monique Gardes](#), [Patricia Jargeat](#) and [Hervé Gryta](#).
- 2020 – 2021 **B. Sc.** Biological - Life Sciences, BOPE (Biology of Organisms, Populations, and Ecosystems), specialty Plant physiology, diversity, and systematics; with honors. [Paul Sabatier University](#), Toulouse, France.
- 2018 – 2020 **Classes préparatoires aux grandes écoles (CPGE)**, or Higher School Preparatory Classes (HSPC), BCPST (Biology, Chemistry, Physics, and Earth Sciences), [General and Technological Education High School \(LEGTA\)](#) of Toulouse Auzeville.
- 2018 **Scientific High-School Diploma**, Life and Earth Sciences, and European option (mention Excellent – Très Bien), [Catholic High School Saint-Gabriel](#), Saint-Affrique, France.

II. PROFESSIONAL EXPERIENCE

- 2020 - 2021 **Scientific Mediator** at the [Natural History Museum of Toulouse](#), Scientific Mediation Team, Botany and Mycology section.
- Jul. - Au. 2021 **Intern**, project “Inventory of Macromycetes, Lichens, and Mycetozoa from the [Museum gardens at Borderouge](#). Natural History Museum of Toulouse, Toulouse Métropole.
Internship advisors: [Olivier Puertas](#) and [Xavier Bossier](#).

- Jun. - Jul. 2021 **Intern**, project “Description of new species of the genus *Cortinarius* (Agaricales, Cortinariaceae) from New-Caledonia”, Laboratoire Evolution et Diversité Biologique (EDB), Paul Sabatier University, Toulouse.
Research advisors and collaborators: Monique Gardes, Patricia Jargeat, Hervé Gryta, [Guillaume Eyssartier](#), [Fabian Carriconde](#), [Marc Ducouso](#).
- June 2021 **Advanced lesson and training** on the use of different microscopic observation techniques in Mycology.
Advisor: Guillaume Eyssartier.
- Fe. - Ap. 2021 **Intern**, projects “Including rare lineages in plant phylogenomic studies by using herbarium collections”, and “On the use of plastomes to understand the degeneration of *ndh* genes in the Lentibulariaceae family”. Laboratoire Evolution et Diversité Biologique (EDB), Paul Sabatier University.
Research advisors: [Guillaume Besnard](#) et [Pauline Raimondeau](#).
- June 2020 **Intern**, advanced improvement/training in taxonomic knowledge and *in situ* identification of Magnoliophyta, curation of Herbarium collections, and literature review: “Plants with Medicinal Properties: A Review”.
Internship advisor: [Fatiha El-Babili](#).

III. FUNDINGS

- 2022 - 2024 Quebec Regional funds (current subvention granted until 2024) from MRC Abitibi obtained by Miguel Montoro Girona and Annie DesRochers for M.Sc thesis. **32 000\$**

IV. AWARDS, NOMINATIONS, GRANTS & DISTINCTIONS

Awards

- 2022 **Winner** of the “Biodiversity” category pic contest, GREMA Symposium, 1st edition.
- 2022 **Best oral presentation (100\$)**, GREMA Symposium, 1st edition.
- 2022 **Research Award (150\$)**, GREMA Symposium, 1st edition.
- 2022 **M.Sc thesis jury prize + 250\$** for my presentation at the local contest ‘[Ma thèse en 180 secondes](#)’ organized by [ACFAS](#), in collaboration with UQAT.
- 2022 **Winner** of the “*Flora*” category within the pic contest organized by the naturalist journal “[La Pie Bavarde](#)” in partnership with [Biotope Editions](#).
- 2021 **Special mention** of the picture *A Lantern into the darkness* during the picture contest of the [23rd Colloque of la Chair UQAT-UQAM en Aménagement Forestier Durable \(AFD\)](#). [Website-Gallery](#) link.

2021 **Second honorable mention** of the Best Poster Jury Prize during the [23rd Colloque of la Chair UQAT-UQAM en Aménagement Forestier Durable \(AFD\)](#) for the poster *Discovering the mysterious fungi of Esker Forests: a mycological madness?*

2017 [International Earth Science Olympiad \(IESO\)](#), French preparation for the **International Geoscience Olympiad Diploma, with honors.**

Nominations

2022 **Second finalist** of the pic contest organized by the naturalist association DRYADES, under the theme “Life Scenes”.

2022 Photo contest **laureate**, *Flora* and *Funga* category, by the naturalist journal “[La Pie Bavarde](#)” in partnership with [Biotope Editions](#).

2021 Finalist of the photo contest organized by the [projet GBI \(Gestion de la Biodiversité\)](#) of Paul Sabatier University on the theme “**Dead trees, source of life**”. Exhibited at the Ranguel media library from Monday 10 until 15 January 2022. Photo nominated: *The Forest is not silent for me* and *Dead, Drying, and Shining*. [Website-Gallery](#) link.

V. SCIENTIFIC ARTICLES

Peer-reviewed articles

2021

Cazabonne J. & Ferrières M. 2022. *Leucopaxillus tricolor* (Agaricales, Tricholomataceae) : Une Première Récolte pour l’Aveyron. *Bulletin mycologique et botanique Dauphiné-Savoie*, 245: 41-54. [ResearchGate link](#).

Cazabonne J., Bartrop L., Dierickx G., Gafforov Y., Hofmann T. A., Martin T. E., Piepenbring M., Rivas-Ferreiro M. & Haelewaters D. 2022. Molecular-based Diversity Studies and Field Surveys Are Not Mutually Exclusive: On The Importance of Integrated Methodologies in Mycological Research. *Frontiers in Fungal Biology*, 3: 860777. <http://dx.doi.org/10.3389/ffunb.2022.860777>

Cazabonne J., Cochard H., Gryta H. & Jargeat P. 2021. Une Nouvelle Récolte du Rare *Mycena chlorinosma* (Agaricales, Mycenaceae) en France. *Bulletin de la société mycologique de France* 137 (1-4): 85 – 99. [ResearchGate link](#).

Cazabonne J. 2021. The Use of Humans Senses in the Identification of Mushrooms. *Field Mycology*, 22 (4): 117 – 122. <https://doi.org/10.1016/j.fldmyc.2021.10.005>

Cazabonne J., Ferrières M. & Menos J.L. 2021. A First Contribution to the Knowledge of *Mycetozoa* from Aveyron (France). *Carnets Natures*, 8: 67 – 81. [ResearchGate link](#).

Submitted-under revision

In preparation

Cazabonne J., DesRochers A., Kim S., Martineau C., Nagati M., Bergeron Y. & Montoro Girona M. [order to be defined]. 2022. Driving Factors of Soil Fungal Communities in Boreal Forests. *Frontiers in Microbiology*.

Cazabonne J., DesRochers A., Martineau C., Kim S., Nagati M., Tedersoo L., Bergeron Y. & Montoro Girona M. [order to be defined]. 2022. All Soil Horizons Matter: Digging Deeper into Podzol Fungal Diversity. *Microbial Ecology*.

Cazabonne J. 2022. The Use of Humans Senses in the Identification of Mushrooms. I. *Field Mycology*.

Cazabonne J. 2022. The Use of Humans Senses in the Identification of Mushrooms. II. *Field Mycology*.

Haelewaters D., **Cazabonne J.**, Van Caenegem W. & De Kessel A. 2022. Distribution of the European *Laboulbeniales* (Fungi, Ascomycota). An annotated list of species, version 2.0. *Mycotaxon*.

Poulain M. & **Cazabonne J.** 2022. Checklist of Tahitian Fungi: Bringing To Light a Huge Mycological Gap. *Mycotaxon*.

Gafforov et *al.* 2022. Ethnomycology of Uzbekistan. Ed.Springer.

Not peer-reviewed

Cazabonne J., Raimondeau P., Dupin J., *et al.* 2021. Including rare lineages in plant phylogenomic studies by using herbarium collections.

Scientific popularization

Cazabonne J., Girona M. M. & DesRochers A. 2022. La diversité fongique cachée des forêts d'esker d'Abitibi. *Couvert Boréal*, 18 (2): 12. [ResearchGate link](#) + [CouvertBoréal link](#).

Cover page

2022 [Volume 12 – La Pie Bavarde.](#)
2021 [Volume 8 – Carnets Natures.](#)

Generated & Published Data

2021

Cazabonne J. & Jargeat P. 14-12-2021. Nucleotide [Internet]. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information; [1988] –. Accession No. OL794681.1, **Pseudoclitocybe obbata** voucher JCFR003 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/OL794681.1>
<http://dx.doi.org/10.13140/RG.2.2.11602.27845>

Cazabonne J. & Jargeat P. 27-09-2021. Nucleotide [Internet]. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information; [1988] -. Accession No. OK239707.1, **Mycena chlorinosma** large subunit ribosomal RNA gene, partial sequence. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/OK239707.1>; <http://dx.doi.org/10.13140/RG.2.2.35376.28165>

Cazabonne J. & Jargeat P. 27-09-2021. Nucleotide [Internet]. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information; [1988] -. Accession No. OK239705.1, **Mycena chlorinosma** voucher JCFR001_p1 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/OK239705.1>; <http://dx.doi.org/10.13140/RG.2.2.14404.76163>

Cazabonne J. & Jargeat P. 27-09-2021. Nucleotide [Internet]. Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information; [1988] -. Accession No. OK239706.1, **Mycena chlorinosma** voucher JCFR001_p2 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence. Available from: <https://www.ncbi.nlm.nih.gov/nuccore/OK239706.1>; <https://doi.org/10.13140/rg.2.2.26578.07362>

VI. SCIENTIFIC AFFILIATIONS

2021 - present	GREMA	<i>Groupe de Recherche en Ecologie de la MRC Abitibi</i>
2019 - 2021	EDB Lab.	<i>Evolution & Biological Diversity Lab.</i>

VII. FIELD EXPERIENCE

2021 – France, étang de Lers, ...

VIII. CONFERENCES AND CONGRESS

Conferences [presenter]

Cazabonne J., Miguel Girona M. & DesRochers A. 2022. **Unravelling the Unique Fungal Diversity Hidden in Podzol from Abitibi Esker Forests.** Poster presentation, [North American Forest Ecology Workshop \(NAFEW\), 2022 edition](#), Gather Town, Wildlife/Biodiversity section. 20/06/2022 – 24/06/2022. <http://dx.doi.org/10.13140/RG.2.2.10206.92484>

Cazabonne J., Miguel Girona M. & DesRochers A. 2022. **Vertical Niches Partitioning of Soil Fungal Communities in Esker Forests.** Poster presentation, [Canadian Botanical Association \(CBA\) annual conference, 2022 edition](#), Rouyn-Noranda (UQAT). 05/06/2022 – 09/06/2022. <http://dx.doi.org/10.13140/RG.2.2.24982.01604>

Cazabonne J., Miguel Girona M. & DesRochers A. 2022. **Les champignons des forêts d'esker : sur l'origine de la distribution spatiale des communautés fongiques.** Oral presentation, [GREMA annual symposium, 1st edition](#). 31/05/2022. <http://dx.doi.org/10.13140/RG.2.2.16917.81120>

Cazabonne J., Miguel Girona M. & DesRochers A. 2022. **Les champignons du sol des forêts d'eskers d'Abitibi : une diversité cachée, située sous nos pieds.** Oral presentation, Compétition

locale UQAT de Ma thèse en 180 secondes, Campus UQAT d'Amos. 18/03/2022.
<http://dx.doi.org/10.13140/RG.2.2.36357.01768>

Cazabonne J., DesRochers A. & Montoro Girona M. **Fungi of Esker Forests: A Canadian Mycological Journey**. Oral presentation (hybride), DRYADES Conference Series, Toulouse (France). 09/02/2022. <http://dx.doi.org/10.13140/RG.2.2.30358.83529>

Cazabonne J. **Describing Fungi: Morphological or Molecular Data, Which One to Choose?** presentation (hybrid), GREMIDI Conference Series, UQAT Amos Campus (Quebec). 27/01/2022.
<http://dx.doi.org/10.13140/RG.2.2.33973.14565/1>

Cazabonne J., DesRochers A. & Montoro Girona M. **Unravelling for the First Time the Fungal Diversity of Northern Quebec Esker Forests**. Oral presentation (Zoom), [CanFunNet](#) Seminar Series. 20/01/2022. <http://dx.doi.org/10.13140/RG.2.2.36738.61129>

Cazabonne J. **From Aveyron to Amos: a mycological adventure!** Oral presentation, Girona Lab meeting, UQAT Amos Campus (Quebec). January 2022.
<http://dx.doi.org/10.13140/RG.2.2.19797.55526>

Cazabonne J., Cochard H., Gryta H. & Jargeat P. **Discovery of a Rare Fungal Species in the Nature Trail of Paul Sabatier University (Toulouse, France): *Mycena chlorinosma* Singer**. Oral presentation (hybrid), 2nd edition of [VERACRUZ](#) Journal Club, Paul Sabatier University, Toulouse (France). 13/01/2022. <http://dx.doi.org/10.13140/RG.2.2.21475.27684>

Cazabonne J., DesRochers A. & Girona Montoro M. **Discovering the mysterious fungi of Esker Forests: a mycological madness?** Poster presentation (Zoom), [23th Colloque of la Chair UQAT-UQAM en Aménagement Forestier Durable \(AFD\)](#), Amos (Quebec). December 2021.
<http://dx.doi.org/10.13140/RG.2.2.21843.91684>. [YouTube](#) link.

Cazabonne J. **An introduction to scientific research: a world apart?** Oral presentation (face-to-face), Atelier Série n°2 d'intervention au Lycée Saint-Gabriel, Saint-Affrique (France). 14/12/2021
<http://dx.doi.org/10.13140/RG.2.2.33787.85285>

Cazabonne J. **Conservation Biology: A New Fungal Perspective**. Oral presentation, Natural History Museum of Toulouse. 2020.

Cazabonne J., Damicis U, Rakhmanova G & Tetbirt K. **The Selfish Gene: A Concept of Immortal Genetic Information**. Oral presentation. 2020.

Interviews

June 2022 [Interview for MediAT](#) during the first edition of the GREMA annual symposium about my M.Sc research. [Youtube link](#).

June 2022 Interview for [Actualités UQAM](#) about our aspiring research group at the frontier between forest ecology (UQAT) and literature (UQAM). [Article link](#).

June 2022 Interview for [Actualités UQAT](#) about our aspiring research group at the frontier between forest ecology (UQAT) and literature (UQAM). [Article link](#).

- May 2022 Interview for [Radio-Canada](#) during “Ça vaut le détour” with Vanessa Limage about our aspiring research group at the frontier between forest ecology (UQAT) and literature (UQAM). [Interview link](#).
- Novemb. 2021 Interview for the local journal [Le Saint-Affricain](#) about my academic studies, my mycological projects, and the difficulties encountered by students coming from the countryside when they first arrive in a big city. [Interview link](#).
- Novemb. 2021 [FRANCE 3 Occitanie](#) Interview during the Mycological Exhibition of the Mycological Association of Toulouse (AMT) – Edition 2021. [My intervention](#).
- October 2021 One-day mycological field outing and interview for *FRANCE 3 Occitanie*. “Cueillette des champignons: comment éviter le crime et l’intoxication?”. [Article link](#).

Engagements

2021 -- Signer of the [FaunaFloraFunga \(FFF\) statement](#) to achieve legal protection for fungi.

2020 -- Contribution to the transcribing of the Fungi Collection of [Gordon William Beaton](#) (Australia, [DigiVol online expedition](#)).

IX. PROFESSIONAL SERVICE

Role as reviewer and editor

- 2021 [Phytotaxa](#) (1), Service UQAT *Corrige-moi* (1)

Services to professional societies and associative activities

- 2022 **Organizing committee** GREMA Symposium, 1st edition.
- 2022 to present **Member** of the Canadian Botanical Association (CBA), section Mycology and Systematics.
- 2022 to present **Student member representative** within the M.Sc Ecology program committee, [UQAT General Student Association](#).
- 2022 to present **Co-Manager** of the social networks ([Facebook](#), [Instagram](#), [Twitter](#), and [LinkedIn](#)) of GREMA lab. with [Ana Verhulst-Casanova](#).
- 2022 to present **Co-leader** of the Green Committee of UQAT, with [Samuel Robin](#).
- 2022 to present **Founding member**, Member of the Board of Directors (CA), Mycological Association of French Polynesia (MYCOPOL), [French Polynesia University \(UPF\)](#).
- 2021 to present **Member**, Diversity, Equity and Inclusion (DEI) board Sub-Committee, [Mycological Society of America \(MSA\)](#).

- 2021 to present **Member** of the Mycological Society of America (MSA).
- 2021 to present **Founding member**, Member of the Board of Directors (CA), scientific writing and communication/conferences division leader, [DRYADES](#) (Naturalist Association of Paul Sabatier Students), Paul Sabatier University.
- 2020 to present **Active member**, Assistant Organizer of Mycological Field Outings and Inventories, [Mycological Association of Toulouse \(AMT\)](#), [Faculty of Pharmaceutical Sciences of Toulouse](#).
- 2020 to present **Active member**, [Mycological and Botanical Association of Aveyron \(AMBA\)](#), Rodez, Aveyron, France.
- 2020 to present **Member**, Initiation to University life and the world of scientific research for newcomer students, [AEST CORPO SCIENCE](#), Paul Sabatier University, Toulouse.

X. TEACHING ACTIVITIES

Lectures

- 2021 **Lecture** for AMT's members at the Pharmacy Faculty of Toulouse: “**Fungal microscopy**” (3h), and “**Classification and terminology of *cystidia***” (2h)
- 2021 **Teaching assistant (4h)** in B.Sc Biology of Organisms, Populations and Ecosystems (BOPE) at Paul Sabatier University (UE ELSVC5JM Biodiversité des champignons): “**Identification of Macromycetes and an introduction to the use of microscopy in Mycology**”. Taught with Monique Gardes and Hervé Gryta.
- 2021 **Mycological Field work assistant (18h)** in B.Sc Biology of Organisms, Populations and Ecosystems (BOPE) at Paul Sabatier University (UE ELSVC5JM Biodiversité des champignons). Organized and conducted with Monique Gardes, Hervé Gryta, Patricia Jargeat and [Nathalie Sejalon-Delmas](#).
- 2021 **Mycological Field work assistant (8h)** in the State Diploma of Doctor of Pharmacy (6-year) at the Pharmacy Faculty of Toulouse (UE11.3 *Intoxications courantes, addictions et conseils à l'officine*). Organized and conducted with [Anne-Cécile Le Lamer](#) and the Mycological Association of Toulouse (AMT).
- 2021 **Tutoring courses (10h)** in Organismic and Evolutionary Biology, Cellular and Molecular Biology, Genetics and Botany/Mycology for B.Sc students belonging to the Life Sciences program (Biological Sciences – Geosciences) of Paul Sabatier University. Teaching activity within the framework of a mentorship project organized by the CORPO SCIENCE student association.
- 2017 to present **Tutoring and reinforcement courses (20h)** in Biology, Mathematics, Physics, Chemistry, Geology, and English for college and high school students from Saint-Affrique (12) surroundings.

XI. SKILLS AND OTHER INFORMATION

Expertise: Fungal integrative taxonomy, systematics, phylogenetic and phylogenomic, molecular ecology, advanced statistical analysis.

Technical skills

Bioinformatics (in silico):

- Sequence databases search (e.g GenBank, UNITE, BLAST running)
- DNA sequence editing and alignment (e.g Geneious, BioEdit)
- Handling of large sequence and genome/plastome datasets
- R, scripting, and coding.
- Phylogenetics-related software (e.g BEAST, MrBayes, MEGA X)

Molecular work:

- DNA Extraction
- PCR Amplification
- Gel electrophoresis
- DNA Sample purification

Other skills

- Mentoring/Supervision in field mycology and microscopy
- Communication (Oral) and scientific popularization – Presentations to specific or broad audiences (e.g conferences, seminars, field ateliers)
- Communication (Written) – Proposal-writing, peer-reviewed manuscripts
- Organization/Ability to complete multiple tasks – 4 peer-reviewed articles published at 21
- Networking & Collaboration – first-authored and coordinating international taxonomic projects

Personal interests: *Flora* and *Funga* photography (including lichens), floristic, mycology-related scientific reading (articles, books, conferences, etc.), scientific popularization, naturalist hiking.

French Driver Licence

Languages:

- *French* native speaker
- *English* fluent
- *Spanish* Intermediate level

XII. LINKS

[Listed in alphabetical order – for printed format]



Updated March 2022