



Doriane HAZART

25 years old
Born September 28, 1999

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ACADEMIC BACKGROUND

Since October 2022: PhD in Neuroscience – Doctoral fellowship from the Doctoral School “Brain, Cognition, Behavior” (ED3C) | Saints-Pères Paris Institute for the Neurosciences (SPPIN) ; *Université Paris-Cité*

Three-dimensional morphological characterization of neuronal networks at the cellular level in the enteric nervous system and biomedical applications for early diagnosis and understanding of Parkinson’s disease ; PhD Supervisor: Dr. Martin OHEIM | Co-supervisor: Dr. Clément RICARD

2020 – 2022: Master’s Degree in Life and Health Sciences – MSc in Cell Signaling and Integrative Neurosciences | *Faculty of Life Sciences and Health ; Université Paris-Saclay*

Multidisciplinary program with a major in theoretical and experimental Cell Signaling and Neurobiology.

2017 – 2020: Bachelor’s Degree in Health Sciences « Sciences pour la Santé » | *Faculty of Fundamental and Biomedical Sciences ; Université de Paris*

Multidisciplinary curriculum with a major in Biology, Neurobiology, and Cognitive Sciences

2017 : French Scientific Baccalauréat | *Lycée Louise Weiss (Achères)*

Specialization in Physics and Chemistry, European section in German



PROFESSIONAL EXPERIENCE

01/10/2023 - 30/09/2025 : Teaching Assistant in Higher Education | *Université Paris Cité, Faculty of Biomedical Sciences*

Assigned to teaching Cell Biology for first-year undergraduate students in Biomedical Sciences

10/01/2022 - 08/07/2022 : Master’s Research Internship in a Neuroscience Laboratory | *Saints-Pères Paris Institute for the Neurosciences (SPPIN, CNRS, UMR 8003, Paris)*

Six-month research internship within the “Brain Biophysics” team, Supervisors: Dr. Martin OHEIM and Dr. Clément RICARD

“Characterization and connectivity of neuronal networks in the enteric nervous system using fast 3D microscopy; Applications to neuropathology”

19/04/2021 - 20/07/2021 : Master's Research Internship (Year 1) in a Neuroscience Laboratory | Saints-Pères Paris Institute for the Neurosciences (SPPIN, CNRS, UMR 8003, Paris)

Three-month internship within the "Brain Biophysics" team Supervisor: Dr. Clément RICARD

"Fast and three-dimensional autofluorescence imaging of the enteric nervous system using a prototype single-spinning disk two-photon microscope"

03/06/2019 – 12/07/2019 : Undergraduate Research Internship (Year 2) in a Neuroscience Laboratory | Saints-Pères Paris Institute for the Neurosciences (SPPIN, CNRS, UMR 8003, Paris)

Six-week internship within the "Biophysics of Neuron-Glia Interactions" team

"Optimization of tissue clearing techniques for imaging thick biological samples; Application to the Auerbach plexus"

July 2016 : Temporary Employee at the Ministry of the Interior | Bureau of Elections and Political Studies

Design and integration of data for an intranet site using Joomla



ADDITIONAL TRAINING

- **Animal Experimentation Certification Level 1** | *Faculty of Pharmacy Paris V. Mar/Apr 2023*
- **Specialization in Experimental Surgery on Rodents** | *Faculty of Pharmacy Paris V. Apr 2025*
- **Three-Minute Thesis Competition Training** | *Alliance Sorbonne Université. Dec 2023/Mar 2024*
- **Teaching Biology at University: Keys to Improve** | *Université Paris Cité. May/June 2023*
- **Career Development for PhD Graduates** | *Université Paris Cité. Apr 2023*
- **Towards "Responsible Research": Identifying Scientific Integrity and Responsibility Issues** | *Université Paris Cité. Apr 2023*
- **INSERM Workshop 268: Light Sheet Fluorescence Microscopy – Principles and Systems Overview** | *May 16 – 18, 2022*



PRACTICAL SKILLS

❖ Microscopy:

- Bright-field microscopy, fluorescence microscopy, confocal microscopy
- Two-photon microscopy (on fixed and cleared tissues)
- Light-sheet microscopy
- Correlative microscopy (slide scanner – confocal microscope)
- Autofluorescence imaging
- Spectral imaging
- 3D imaging of thick samples

- ❖ **Animal Experimentation:**
 - Holder of Level 1 Animal Experimentation Certification with a specialization in experimental surgery on rodents
 - Tissue sampling
 - Anatomical dissection and study
- ❖ **Histology, Immunohistochemistry, Tissue Clearing:**
 - Cryostat sectioning of frozen samples
 - Handling and use of fixed human biological tissues
 - Standard histological staining (H&E, Cresyl violet, etc.)
 - Immunohistochemistry on thin and thick tissue samples
 - Use of tissue clearing techniques
- ❖ **Languages:**
 - French: Native
 - English: Intermediate level
 - German: Intermediate level (First foreign language for Baccalauréat)
- ❖ **Computer Skills:** Microsoft (Word, Excel, Power-Point), LibreOffice, Joomla, Internet, ImageJ, Imaris, Canva, retouche photo
- ❖ **Other:** Driver's license (Category B), Coastal boating license



TEACHING EXPERIENCE

- **Teaching Assistant in Cell Biology (Year 1, Biomedical Studies) | Université Paris Cité,** (Cell Biology, Developmental Biology, Anatomy), 116h including 32h lab, 75h tutorials, 9h exams – 2023–2025
- **Teaching Assistant in Transdisciplinary Unit (Year 3, Biomedical Studies) | Université Paris Cité,** (biology-physics, 3h), 2025
- **Teaching Assistant in Cell Biology (Year 1, Mathematics & Computer Science) | Université Paris Cité,** 12h tutorials, 2024
- **Supervision of an M1 Neuroscience Internship | Université Paris Cité,** (Feb to Apr 2025)



ADMINISTRATIVE DUTIES

- **Elected Member of the Doctoral School Council “Brain, Cognition, Behavior” (ED3C) | Université Paris Cité, Sorbonne Université, Paris Sciences et Lettres (PSL),** 2024 - 2025
- **Organizing Committee Member of “Young SPPIN” | Saints-Pères Paris Institute for the Neurosciences (SPPIN) ; Université Paris-Cité**



ACCEPTED PUBLICATIONS

- **#5. Label-free, high-resolution fluorescence imaging of the intestinal wall by image scanning and confocal microscopy** : Marwa Moulzir*, Doriane Hazart*, Brigitte Delhomme, Martin Oheim & Clément Ricard (* : co-first authors) | Gasto Hep Advances, **2025**
- **#4. Fast tissue clearing and volume imaging techniques for anatomy** : Clément Ricard*, Doriane Hazart*, Brigitte Delhomme*, Marwa Moulzir, Irina Rakotoson & Martin Oheim (* : co-first authors) | Wiley MRT – Fundamentals in Microscopy, **2025**
- **#3. Imaging the enteric nervous system** : Doriane Hazart, Marwa Moulzir, Brigitte Delhomme, Martin Oheim & Clément Ricard | Frontiers in neuroanatomy, **2025**
- **#2. The gut, a whistleblower, in the early stages of Parkinson's disease** : Doriane Hazart, Malvyne Rolli-Derkinderen, Brigitte Delhomme, Pascal Derkinderen, Martin Oheim & Clément Ricard | Médecines Sciences, **2024**
- **#1. Label-free, fast, 2-photon volume imaging of the organization of neurons and glia in the enteric nervous system** : Doriane Hazart, Brigitte Delhomme, Martin Oheim & Clément Ricard | Frontiers in Neuroanatomy, **2023**



MANUSCRIPTS UNDER REVIEW

- **Label-free high-resolution volume imaging of cleared testes** : Marwa Moulzir, Doriane Hazart, Brigitte Delhomme, Martin Oheim & Clément Ricard



MANUSCRIPTS IN PREPARATION

- **Autofluorescence imaging as a new and innovative tool for early Parkinson's disease diagnosis on intestinal samples** : Doriane Hazart, Marwa Moulzir, Brigitte Delhomme, Pascal Derkinderen, Malvyne Rolli-Derkinderen, François Cossais, Peter Neckel, Martin Oheim & Clément Ricard
- **Transparent feathers: A novel approach for whole feather microstructure imaging through tissue clearing and autofluorescence imaging** : Marwa Moulzir, Doriane Hazart, Brigitte Delhomme, Martin Oheim & Clément Ricard



ORAL PRESENTATION WITH PUBLICATION

- **Fast, large-field fluorescence and second-harmonic generation imaging with a single-spinning disk two-photon microscope** : Andreas Deeg, Federico Trigo, Doriane Hazart, Brigitte Delhomme, Tchyia Zar, Thomas Naiser, Christian Seebacher, Adi Salomon, Clément Ricard, Rainer Uhl & Martin Oheim



- **L'intestin, lanceur d'alerte, dans les prémices de la maladie de Parkinson ; Imagerie 3D haute résolution du Système Nerveux Entérique, vers un nouvel outil pour la compréhension et le diagnostic de la maladie : Doriane Hazart**, Brigitte Delhomme, Pascal Derkinderen, Martin Oheim & Clément Ricard | Les conférences du mardi du comité 75 France Parkinson, Paris, 14th January 2025
- **"Pitch ta these" Competition: Constipation et tremblements ! Étude des réseaux neuronaux de l'intestin pour un diagnostic précoce de la maladie de Parkinson : Doriane Hazart** | La fête de la Science, Université Paris Cité, 9th – 16th October 2024
- **Imagerie d'Autofluorescence Rapide et Tridimensionnelle du Système Nerveux Entérique à l'Echelle Subcellulaire : un Nouvel Outil pour la Compréhension et le Diagnostic des Neuropathologies : Doriane Hazart**, Brigitte Delhomme, Martin Oheim & Clément Ricard | 5ème édition des journées des neurosciences translationnelles, Pornichet, Mar 2024
- **"My Thesis in 180 Seconds" Competition: Caractérisation morphologique tridimensionnelle des réseaux neuronaux à l'échelle cellulaire du système nerveux entérique et applications biomédicales au diagnostic précoce et à la compréhension de la maladie de Parkinson : Doriane Hazart** | Alliance Sorbonne Paris Cité, Paris, 14th March 2024
- **Label-free, fast, 2-photon volume imaging of the organization of neurons and glia in the Enteric Nervous System : Doriane Hazart**, Brigitte Delhomme, Martin Oheim & Clément Ricard | Neuroscience Graduate school Scientific event, Université Paris Cité, 5th October 2023
- **Label-free, fast, 2-photon volume imaging of the organization of neurons and glia in the Enteric Nervous System : Doriane Hazart**, Brigitte Delhomme, Martin Oheim & Clément Ricard | ED3C Scientific day, Paris, Apr 2023
- **Label-free, fast, 2-photon volume imaging of the organization of neurons and glia in the enteric nervous system : Doriane Hazart**, Brigitte Delhomme, Martin Oheim & Clément Ricard | Preclinical Microscopy" Meeting, France BioImaging, Nantes, 12th December 2022



- **Fast, three-dimensional, high-resolution autofluorescence imaging of intestinal biopsies for early Parkinson's disease diagnosis : Doriane Hazart**, Marwa Moulzir, Brigitte Delhomme, Martin Oheim & Clément Ricard, Gordon Research Conference : Circuit and Cellular Mechanisms, Waterville Valley, New Hampshire, 7th – 13th June 2025
- **Autofluorescence imaging as a new and innovative tool for early Parkinson's disease diagnosis on intestinal samples : Doriane Hazart**, Moulzir Malwa, Delhomme Brigitte, Pascal Derkinderen, Malvyne Rolli-Derkinderen, François Cossais, Peter Neckel, Oheim Martin & Ricard Clément, SPPIN laboratory retreat, Dourdan, 29th – 30th April 2025
- **Autofluorescence imaging as a new and innovative tool for early Parkinson's disease diagnosis on intestinal samples : Doriane Hazart**, Moulzir Malwa, Delhomme Brigitte, Pascal Derkinderen, Malvyne Rolli-Derkinderen, François Cossais, Peter Neckel, Oheim Martin & Ricard Clément, ED3C Scientifics Days, Roscoff, 19th – 21th March 2025
- **Imagerie d'Autofluorescence Rapide et Tridimensionnelle du Système Nerveux Entérique à l'Echelle Subcellulaire : un Nouvel Outil pour la Compréhension et le Diagnostic des Neuropathologies : Doriane Hazart**, Brigitte Delhomme, Marwa Moulzir, Pascal Derkinderen, Malvyne Rolli-Derkinderen, Martin Oheim & Clément Ricard, 37ème congrès de l'Association Française d'Histotechnologie, Saint-Malo, June 2024
- **Comparaison des techniques histologiques 2D et de l'imagerie 3D en autofluorescence grâce à la technique de transparisation su-r coupe épaisse de testicule de souris : Marwa Moulzir*, Brigitte Delhomme, Doriane Hazart, Martin Oheim & Clément Ricard, 37ème congrès de l'Association Française d'Histotechnologie, Saint-Malo, June 2024 (* : speaker)**
- **Imagerie d'Autofluorescence Rapide et Tridimensionnelle du Système Nerveux Entérique à l'Echelle Subcellulaire : un Nouvel Outil pour la Compréhension et le Diagnostic des Neuropathologies : Doriane Hazart**, Brigitte Delhomme, Marwa Moulzir, Pascal Derkinderen, Malvyne Rolli-Derkinderen, Martin Oheim & Clément Ricard, 5ème édition des journées des neurosciences translationnelles, Pornichet, May 2024
- **3-D autofluorescence imaging of the enteric nervous system for neuropathological diagnosis : Doriane Hazart**, Brigitte Delhomme, Pascal Derkinderen, Malvyne Rolli-Derkinderen, Martin Oheim & Clément Ricard, 50th Focus on Microscopy Congress (FOM2024), Genova, March 2024
- **Fast 3D autofluorescence imaging of the Enteric Nervous System : Doriane Hazart**, Brigitte Delhomme, Martin Oheim & Clément Ricard, 35ème congrès de l'Association Française d'Histotechnologie, Marseille, 16th – 17th June 2022
- **Fast 3D autofluorescence imaging of the Enteric Nervous System : Doriane Hazart**, Brigitte Delhomme, Martin Oheim & Clément Ricard, INSERM Workshop 268 : Light Sheet Fluorescence Microscopy: Principles and Systems Overview, Bordeaux, 16th – 18th May 2022
- **Fast 3D autofluorescence imaging of the Enteric Nervous System : Doriane Hazart**, Brigitte Delhomme, Martin Oheim & Clément Ricard, Congrès Nanoscale, Paris, April 2022



CONGRES

- Gordon Research Conference : Circuit and Cellular Mechanisms, Waterville Valley, New Hampshire, 7th – 13th June 2025
- ED3C Scientific Days, Roscoff, 19th – 21th March 2025
- 37ème congrès de l'Association Française d'Histotechnologie, Saint-Malo, June 2024
- 5ème édition des journées des neurosciences translationnelles, Pornichet, May 2024
- 50th Focus on Microscopy Congress (FOM2024), Genova, March 2024
- 6th World Parkinson Congress, Barcelona, July 2023
- ED3C Scientific day, Paris, April 2023
- Preclinical Microscopy” Meeting, France BioImaging, Nantes, 12th December 2022
- 35ème congrès de l'Association Française d'Histotechnologie, Marseille, 16th – 17th June 2022
- Congrès Nanoscale, Paris, April 2022
- Workshop sur l'axe cerveau-microbiote “Atelier Cerveau – Microbiote”, Paris, 12th October 2021



COLLABORATIONS

- Prof. Pascal Derkinderen, Neurologue, CHU of Nantes, France
- Jun. Prof. Dr. François Cossais, Biologiste, Department of Anatomy, Christian-Albrechts-Universität zu Kiel, Allemagne
- Dr. rer. nat. Peter Neckel, Biologiste, Institut für Klinische Anatomie und Zellanalytik, Universitätsklinikum Tübingen, Allemagne



FUNDING AND AWARDS

- Travel Grant (4,000 €) from the France Parkinson Association to attend the 5th Gordon Research Conference on Parkinson's Disease, held June 8–13, 2025, in Waterville Valley, New Hampshire, USA
- Doctoral Fellowship from the Doctoral School “Brain, Cognition, Behavior” (ED3C), Paris – October 1, 2022 – September 30, 2025
- Best Poster Award, SPPIN Laboratory Retreat – Dourdan, April 29–30, 2025
- Special Jury Prize – “Jury's Favorite Award”, Science Communication Competition “My Thesis in 180 Seconds”, Alliance Sorbonne Paris Cité – Paris, March 14, 2024



❖ Athletics:

- **March 2018 : Second selection for the French national team:** International Hammer Throw Match (France-Germany-Italy) – Under 20 and Under 23 categories
- **July – August 2015 : First selection for the French Olympic Team:** European Youth Olympic Festival (EYOF), Tbilisi, Georgia – Hammer Throw
- **2015 – 2018 : Listed on the French Ministry of Sports' register of high-level hopeful athletes (Espoir de haut niveau)**
- **2015 – 2019 : 7 podium finishes at the French National Hammer Throw Championships**
- **2006 – 2019 :** Track and field athlete with a specialization in hammer throw

❖ Commitment to National Service:

- **2015 – 2016 : Naval Military Preparation (PMM Richelieu).** Awarded the Naval Military Preparation Certificate; ranked 8th out of 64 with Honours
- **2014 – Present: Young flag bearer** for the National Union of Combatants. Member of the executive board of the National Association of OPEX-OPINT Veterans, France

❖ Awards and Distinctions:

- **2019 : Commendation Letter from the French Ministry of Youth and Sports**
- **2017 : Medal of the City of Maisons-Laffitte** for civic and military engagement and athletic achievements

❖ Community and Volunteering Activities:

- **2010 – 2015 :** Volunteer for the "Aide aux Félines" (Feline Aid Association), Maisons-Laffitte
- **2024 – Present:** Member of the "Mission Bretonne" cultural association, Paris