

Inès Adrar

CURRENT POSITION

PhD

Science Engineering Health Doctorate

School (ED SIS 488), UJM

Last position: PhD student
Neurosciences and Plant Biology
Laboratories,
April 2019 – June 2023

RESEARCH AND PERSONAL INTERESTS

Interdisciplinary projects
Human olfaction
Emotions
Biochemistry
Human relationships

Social neurosciences
Behavioral experiments
Statistics
Epistemology

Scientific mediation

Mental health in and outside
the scientific research

CONTACT

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Lyon, 69007, France

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EDUCATION

Doctorate degree – Neurosciences and Plant Biology

2019-2023 | Science Engineering Health Doctorate School (ED SIS 488),
UJM, Saint-Etienne, France

Master degree - Fundamental and Clinical Neuroscience

2016-2018 | Science Faculty, Lyon 1, France

Licence degree – Physiology & Neurosciences (specialization: “Adaptation & Cognition”)

2013-2016 | Sciences Faculty, Aix-Marseille University, Marseille Saint Charles,
France

RESEARCH EXPERIENCE

Research engineer | Institute of Cognitive Science – Marc Jeannerod

CNRS UMR 5229, France

September 2023 - August 2024 | Cognitive Neuroscience

Study: Observation of experiments in the medical genetics and
functional genomics laboratory focusing on behavioral genetics.

Tools: Creation of experiments in behavioral science – Psychopy ; Brain imaging
analysis – SPM ; Statistics – R Studio, Python.

Missions: Behavioral and brain functional connectivity analysis.

Principal Investigator: Seongmin Park

PhD | Neurosciences (CRNL) and Plant Biology (LBVpam)

CNRS UMR 5292, INSERM UMRS 1028, UCBL Lyon1 and UJM
& CNRS UMR 5079, France

April 2019 – June 2023 | Olfaction and plant biology

Studies: Relationship between compounds organic volatiles of roses
and its odor hedonics.

Tools: Behavioral analysis – Labview (A2 VANA, Volcan) ; Cellular
analysis – Matlab, Mercator ; GC- MS Analysis – Data Analysis®,
MassHunter ; Statistics – R Studio, Python.

Missions: Management of interdisciplinary studies in neurosciences,
biochemistry, plant physiology and genetics.

Directors: Nathalie Mandaïron & Sylvie Baudino

Research Internship | Neurosciences (CRNL),

CNRS UMR 5292, France

January – July 2018 | 7 months | Olfaction and aging process

Study: Effect of aging in perceptual and motor olfactory capacities.

Tools: Psychosniff, R

Missions: Design of an entire battery of olfactory tests for young
people and the elderly

Supervisor: Bénédicte Ballanger

Research Internship | Neurosciences (CRNL),

CNRS UMR 5292, France

January - February 2017 | 6 weeks | Olfaction and Brain Imagery

Studies: Data analysis of the modeling [11C] yohimbine, antagonist of
 $\alpha 2$ -Adrenergic receptors, PET monkey brain kinetics with test-retest
reliability, competition sensitivity studies and search for a suitable
reference region.

Tools: R Studio, Matlab – SPM12

Missions: PET scan combined with fMRI data analysis.

Supervisor: Bénédicte Ballanger

PUBLICATIONS

Adrar, I., Mantel, M., Rius-Bony, A., Thévenet, M., Boachon, B., Dejou, J., Caissard, J.C., Bensafi, M., Baudino, S., Mandairon, N. (2023). Why do we like so much the smell of roses: relationship between odorant compounds and olfactory hedonics. *In preparation.*

Adrar, I., Rius-Bony, A., Baudino, S., Mandairon, M. (2023). Study of the allelic diversity of rose fragrance genes. *In preparation*

Adrar, I., Midroit, M., Athanassi, A., Chalançon, L., Thévenet, M., Baudino, S., Cavelius, M., Didier, A., Mandairon, N. (2023). Impact of odor-induced reduction in anxiety on brain’s activity and connectivity. *In preparation*

Caissard, J. C., **Adrar, I.**, Conart, C., Paramita, S. N., & Baudino, S. (2022). Do we really know the scent of roses? *Botany Letters*, 1-12

Dantec, M., Chalançon, L., Thévenet, M., **Adrar, I.**, Baudino, S., Mandairon, N., & Bensafi, M. (2023). Measuring Hedonic Behaviors to Food Odors in Children. In *Basic Protocols on Emotions, Senses, and Foods* (pp. 131-143). New York, NY: Springer US.

FELLOWSHIPS

“Pack Ambition Recherche” – Auvergne-Rhône-Alpes Region – PhD fellowship (2019-2023)

TEACHING
EXPERIENCE

Teaching assistant | Université Jean- Monnet, Saint-Etienne, France
October 2019 – October 2021 | 48 hours | 240 students | Life Science, Licence 3

Courses: Nervous systems: from neurons to nerve function. Setting up and teaching practical work on the sense organs (behavioral studies, microscopy, psychophysics), correction of practical work reports.

Supervisor : Joël Attia

Teaching assistant | Université Jean-Monnet, Saint-Etienne, France
September 2019 – September 2020 | 52 hours | 160 students | Life Science, Licence 3

Courses: S5SV06 - EU Plants: evolution and phylogeny. Accompanying students on a botanical science and mycology field trip, applying theoretical knowledge and sample collection to build a herbarium.
Supervisor : Sylvie Baudino and Jean-Claude Caissard

SKILLS

PROJECT MANAGEMENT



STATISTICS COMPUTING



BEHAVIORS MODELLING



EXPERIMENTAL DESIGN



ENGLISH (TOEIC B2 Level)



SPANISH (B1 Level)



SCIENTIFIC CONFERENCE

Adrar, I., Mantel, M., Rius-Bony, A., Thévenet, M., Boachon, B., Dejou, J., Caissard, J.C., Bensafi, M., Baudino, S., Mandaïron, N. (2022). Why do we like so much the smell of roses: relationship between odorant compounds and olfactory hedonics. (Poster Presentation). ECRO Meeting XXXII: 2022 – Berlin, Germany

Adrar, I., Midroit, M., Athanassi, A., Chalançon, L., Thévenet, M., Baudino, S., Cavelius, M., Didier, A., Mandaïron, N. (2022). Impact of odor-induced reduction in anxiety on brain's activity and connectivity. (Poster Presentation). FENS Meeting 2022 – Paris, France

Adrar, I., Baudino, S., Mandaïron, N. (2021). Effect of olfactory enrichment on anxiety-like behavior in adult mice. (Poster Presentation). ED SIS Research Day

SCIENTIFIC MEDIATION

Adrar, I. (2023). « Pourquoi aimons-nous tant le parfum de la rose ? » (20 minutes Speech). Pint of Science France Festival 2023 – Upperside, Lyon, France

Adrar, I. (2021). « Pourquoi nous aimons tant le parfum des roses : de la génétique des plantes aux circuits neuronaux ? » (20 minutes Speech). PhD Pub Montpellier – videoconference, Montpellier, France

EXTERNAL FORMATIONS

Learn to Program: The Fundamentals, University of Toronto, Coursera – On line, 25h
2023 | Certificate: Yes

Mental health first aid, PSSM France, Lyon, 14h
2023 | Certificate: Yes

Speaking in front of a group. Expression techniques and speech management, UDL, Lyon, 21h
2022 | Certificate: Yes

Communicating your research to everyone: My thesis in 180 seconds, UDL, Lyon, 11h
2021-2022 | Certificate: Yes

Surgical Techniques applied to experimentation without the use of live animals, WASP Science, Lyon, 15h
2020 | Certificate: Yes

Team management, UJM, Saint-Etienne, 14h
2020 | Certificate: Yes

Designing and running a virtual classroom, UJM, Saint-Etienne, 3h30h
2020 | Certificate: Yes

Scientific integrity in the research professions, FUN-MOOC, 15h
2020 | Certificate: Yes

Animal research designer: murine and genetically modified mode, ENS de Lyon, 66h
2019 | Certificate: Yes

Ethic, deontology, and scientific integrity, UJM, Saint-Etienne, 15h
2019 | Certificate: No

25/09/2023

