

CONTACT

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- @DHuzard
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KEY SKILLS

- Project Management:** Led and delivered multi-disciplinary projects.
- Team Leadership:** Directed cross-functional teams to achieve goals.
- Data Analysis:** Expert in complex behavioral & neurophysiological data.
- Scientific Communication:** Awarded for presentations, Published extensively; secured grants/funding.
- Interdisciplinary Collaboration:** Integrated neuroscience and physiology research.

RESPONSABILITIES

- President of an association
- Moderator of **TheBehaviourForum**
- Reviewer in *Frontiers in Behavioral neuroscience*
- Mentor and Workshop Facilitator
- COST-TEATIME member
- Member of IGF lab Council
- MATRICES Juniors representative

EDUCATION

2014 - 2018

EPFL PhD in Neurosciences

2008 - 2013

EPFL Master in Life Sciences

Engineering Diploma

GPA: 5.6 / 6.0

2007 - 2008

LYON Math-Sup, PCSI

2006

BACCALAURÉAT SCIENTIFIQUE

LANGUAGES

- French (Native)
- English (Fluent)
- Italian (Basics)

HUZARD DAMIEN, PHD

SCIENTIST | NEURO-PHYSIO-BEHAVIORIST
DATA ANALYST | PROJECT MANAGER

PROFILE

Accomplished neuroscientist with 10 years of experience in multidisciplinary scientific projects (combining neurophysiological and behavioral research). Strong Expertise in neurodevelopmental disorders, project management and data analysis. Skilled in leading diverse teams to innovate and implement research findings in preclinical settings and integrating neuroscience with physiological studies to advance understanding in neurocognition.

WORK EXPERIENCE

- IGF Montpellier (CNRS, INSERM)** 2021 - 2024
Senior Postdoc researcher
 - Led research focusing on somatosensory deficits in autism models, exploring the intersection of neurophysiology and social behaviors.
 - Developped a novel research trajectory highlighting the role of the skin in neurodevelopmental disorders.
 - Analyzed heart rate in relation to sociability in preclinical models.
 - Supervised 2 Engineers, 2 Master Students 1 PhD candidate
 - 3 Awards, 2 scientific articles 1 Python library, 1 postdoc Grant
- IGF Montpellier (CNRS, INSERM)** 2019 - 2021
Postdoc researcher
 - Leveraged machine-learning techniques to solve complex data analysis problems (sociality in mice models of ASD)
 - Led behavioral tests for studying pathological social avoidance, enhancing clinical understanding of ASD.
 - 2 Scientific papers, 2 Certifications (Python and Animal experiments)
- EPFL, Switzerland** 2014 - 2018
PhD Candidate (Lab of Prof. Carmen Sandi)
 - Conducted comprehensive behavioral and physiological research on rats, focusing on stress adaptation.
 - Developed models to understand stress responses, applicable in health monitoring technologies.
 - Led research that advanced understanding of biomarkers in preclinical models contributing to potential therapeutic strategies.
 - 3 Scientific articles, 4 international conferences, EU consortium
- EPFL, Switzerland** 2013 - 2014
Research intern
 - Investigated the effects of nutritional supplements on physical activity and mitochondrial function in rats.
 - 1 high-impact Scientific article: Ryu et al., 2016 in *Nature Medicine*
- Concordia University, Montréal** 02 - 09.2013
 - 1 first-author scientific article published

TECHNICAL SKILLS

EXPERT IN PRECLINICAL RESEARCH

- BIO-BEHAVIORAL PHENOTYPES
- HOMECAGE MONITORING
- DESIGNING EXPERIMENTS/HARDWARE
- ECG MONITORING AND ANALYSIS
- OPTOGENETICS / PHOTOMETRY

PROGRAMMING

- PYTHON CODING (PANDAS, PYTORCH)
- DEVELOPED ANALYSIS TOOLS (LWTOOLS).
- MACHINE LEARNING TOOLS (DLC, LMT)
- IOT SYSTEM DEVELOPMENT

DATA PROCESSING

- DATA ANALYSIS AND STATISTICS
- VIZUALISATION & LIVE MONITORING
- DATA LOGGING AND TIME-SERIES
- DATA MANAGEMENT AND STORAGE

PROJECT/LAB MANAGEMENT

- MANAGED OPERATIONS AND PROTOCOL DEVELOPMENT.
- AUTOMATION AND ORGANIZATION

ORAL PRESENTATIONS

2023 - SFETD - Young Talent Session

- French Pain Research Network Symposium
- YISS, IGF Montpellier
- EPNA Award special lecture, Eranet meeting
- IASAT, Marseille - poster
- Neurofrance, Lyon - poster

2022 - Spin-Days, Sète

- GIS Autism, Andrew#3
- FENS, Paris - poster

2020 - FENS, Virtual - poster

2019 - Invited Seminar (by V. Prevost), Inserm Lille

2018 - FENS, Berlin - poster

- Webinar for MATRICS EU-FP7 consortium.

2017 - EPFL Brain-Mind-Institute retreat, Villars

2016 - FENS, Copenhagen - poster

2016, 2017 & 2018 - MATRICS (EU FP7) GAs

2014 - FENS, Milan - poster

HOBBIES

Bouldering

Contemporary Art

AWARDS, GRANTS

- Best Speaker Award, YISS (2023)
- Best presentation, French Pain Symposium (2023)
- Invitation at SFETD meeting (2023)
- NEURON, EPNA Award, 3000€ (2022)
- Lefoulon-Delalande fellowship, 57000€ (2021)
- FENS Grant & Voucher Programme (2020)
- FENS-IBRO/PERC travel grant (2018)
- Research Explorer Ruhr: visiting Cheng lab (2018)

MEDIA OUTREACH

- Gehirn & Geist (Feb 23), *Die soziale Kraft der Berührung*.
- Neurosapiens Podcast (Nov 22), on Social contacts.
- Cerveaux & Psycho (Oct 22), *Le toucher fondement du lien social*.
- Espiloon N°147 (2021), *Le pouvoir des Caresses*
- Canal9, TV documentary on rats behavior (2014)

CERTIFICATIONS

FELASA B / Concepteur experimentation animale

Python advanced

SCIENTIFIC ARTICLES

1000+ CITATIONS, H-INDEX = 8

- Huzard et al. (Under Review)

First study describing a link between autism and hypersensitivity to itch and specific somatosensory deficits.

- (in preparation) Huzard and Sandi.

Study showing an effect of the social context on the metabolism of rats.

- (2023) LWTools (v1.1.1)

Python library to help analyzing data from LiveMouseTracker.

- (2022) Huzard et al., *Science advances*.

AWARDED Excellent paper in Neuroscience, from ERANET

- (2020) Huzard et al. (REVIEW). *Stress*.
- (2020) Huzard et al.. *Stress*.
- (2019) Borie et al. *BioRxiv*.
- (2019) Huzard et al., *Psychoneuroendocrinology*.
- (2017) Laviola et al., *Plos One*.
- (2016) Huzard et al., (REVIEW).
- (2016) Ryu et al., *Nature Medicine*.
- (2015) Huzard et al., *Physiology & Behavior*.