CONTACT

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- Montpellier, France
- www.dhuzard.github.io
- <u>www.neuronautix.com</u>
- www.metadatapp.net
- in <u>dhuzard</u>

KEY SKILLS

Project Management: Leading and delivering multidisciplinary projects

Data Analysis: Expert in data analysis

Team Leadership: Lead and mentor.

Scientific Communication through publications, talks, and grants

Interdisciplinary Collaborations

Homecage Monitoring Expert

FAIR Metadata & Ontologies for reproducibility and interoperability

Entrepreneurship & Consulting as

Founder & CEO of MAPP

RESPONSABILITIES

- Founder & CEO of MAPP
- Founder of Neuronautix
- Admin of The Behaviour Forum
- Reviewer for Frontiers in Behavioral Neuroscience
- Member of COST Action TEATIME
- Mentor & Workshop Facilitator
- President of an Art Association

EDUCATION

2014 - 2018

EPFL PhD in Neurosciences

2008 - 2013

EPFL Master in Life Siences

Engineering Diploma

GPA: 5.6 / 6.0

LANGUAGES

- French (Native C2)
- English (Fluent C1)
- Italian (B2)

HUZARD DAMIEN, PHD

FOUNDER & CEO OF METADATAPP (MAPP)
DATA & BEHAVIORAL SCIENCE CONSULTANT
FAIR METADATA EXPERT

PROFILE

Neuroscientist with 15+ years of experience in preclinical research, specializing in behavior, data science, and neurodevelopmental disorders. I help academic, clinical, and industry partners improve reproducibility through FAIR metadata, ontology design, and advanced Homecage Monitoring (HCM) solutions. Experienced in leading cross-functional projects, analyzing complex datasets, and delivering innovative, translational outcomes.

WORK EXPERIENCE

Founder (CEO, CSO)

2025 -

METADATAPP (MAPP) => www.metadatapp.net

• An API-first platform to organize and standardize metadata management in preclinical research settings.

Founder and Science Consultant

2024 -

Neuronautix (www.neuronautix.com)

- Scientific consultant, Data analysts
- Helping Professionals with Behavioral and preclinical studies

Senior Postdoctoral scientist

2021 - 2024

Institute of Functional Genomics (IGF), CNRS/INSERM, Montpellier

- Led research on somatosensory deficits in autism models, exploring novel connections between neurophysiology and social behaviors.
- Developped an innovative research trajectory focusing on the role of the skin in neurodevelopmental disorders.
- Studied heart rate in relation to sociability in preclinical models.
- Supervised 2 Engineers, 2 Master Students 1 PhD canditate
- 3 Awards, 2 scientific articles, 1 Python library, 1 postdoc Grant (57k€)

Postdoctoral scientist

2019 - 2021

Institute of Functional Genomics (IGF), CNRS/INSERM, Montpellier

- Leveraged machine-learning techniques to solve complex data analysis problems (sociality in mice models of ASD)
- Led studies on pathological social avoidance in ASD models.
- 2 scientific articles, Certifications (Python and animal experimentation)

PhD Candidate

2014 - 2018

EPFL, Switzerland (Lab of Prof. Carmen Sandi)

- Behavioral and physiological research on Stress adaptation of rats.
- ECG monitoring to understand stress.
- Led research that advanced understanding of biomarkers in preclinical models contributing to potential therapeutic strategies.
- 3 Scientific articles, 4 international conferences, 1 EU consortium

Research intern

2013 - 2014

EPFL and Concordia University

- Effects of Urolithin-A on activity and mitochondrial function in rats.
- Co-author in Nature Medicine + first-authorship

TECHNICAL SKILLS

• Metadata & FAIR Data -

Ontology design, FAIR principles, metadata management, semantic web standards

Project & Lab Management

Operations management, protocol development, automation, organization; Founder of Neuronautix and MetaDatApp

• Programming & Data Science

Python (pandas, PyTorch), custom analysis tools (LWTools), machine learning tools, IoT system development, APIs, LLMs, PHP

Data Processing & Analytics

Time-series analysis, statistics, visualization, live monitoring, data logging, metadata storage and interoperability

• Preclinical Research

Bio-behavioral phenotyping, Homecage Monitoring (LMT, DVC, DOMEs), ECG monitoring & analysis, optogenetics, fiber photometry, experimental & hardware design

ORAL PRESENTATIONS

2025 - TEATIME conference: "Metadata management in preclinical research"

- AFTSAL meeting: "Metadata tools"
- 2 TEATIME Webinars "science communication"

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

Family activities Climbing, Tennis, Padel Contemporary Tattooing

AWARDS, GRANTS

- 4 Virtual Mobility Grants from COST (2025)
- Young Researcher and Innovator grant (2025)
- Virtual Mobility for TheBehaviourForum.org (2024)
- 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 (Animal experimenatation, Conceptor level)

JAX Course: ML Application for Behavior Quantification

Cajal Neurokit: Modern Approaches to Behavioural Analysis

Python: Data analysis Python: advanced

SCIENTIFIC ARTICLES

1000 + CITATIONS, H-INDEX = 8

- (2025) Too big to Lose, OSF preprint. FAIR- compliant Repositories for HCM (meta)data.
- (2025) Huzard et al., BioRxiv (Under Review)

First study showing a link between ASD and itch hypersensitivity and somatosensory deficits.

• (2023) LWTools (v1.1.1)

Python library to analyze data from LiveMouseTracker.

• (2022) Huzard et al., Science advances.

AWARDED Excellent paper in Neuroscience

- (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.