



## Ketan Jaltare

**Date of birth:** 03/12/1986 | **Nationality:** Indian | **Phone number:** (+32) 487838069 (Mobile) |

**Email address:** [ketan.jaltare@kuleuven.be](mailto:ketan.jaltare@kuleuven.be) | **Website:** <https://neojaltare.github.io> | **Website:** <https://ppw.kuleuven.be/ogp/team/00137761> |

**Address:** Tiensestraat 102, box 3726, 3000 , Leuven , Belgium (Work)

### ABOUT ME

I have recently completed my PhD in Psychology at the Health Psychology research group, KU Leuven. My doctoral work has been focused on understanding the influence of psychological and social factors on the development of secondary hyperalgesia. I use a variety of techniques including EEG, skin conductance, heart rate and pupillometry to understand the mechanisms through which these factors may influence the development of secondary hyperalgesia. My research interests primarily lie in understanding how various top-down mechanisms come together to shape our experience of the world, and using advanced analysis techniques, including time-frequency and connectivity analyses, computational modeling, and Bayesian approaches, to uncover their underlying brain dynamics.

### WORK EXPERIENCE

 **HEALTH PSYCHOLOGY RESEARCH GROUP, KU LEUVEN** – LEUVEN, BELGIUM

**PHD FELLOW** – 01/06/2020

PhD fellow at the Health Psychology research group, KU Leuven.

PhD thesis: A functional-evolutionary perspective on persistent pain: the role of the social context

 **KU LEUVEN** – LEUVEN, BELGIUM

**RESEARCH ASSOCIATE** – 31/01/2025 – CURRENT

- Designing and carrying out experiments examining the role of psychological and social factors on the development of pain and hyperalgesia.
- Advanced Data analysis of behavioural, EEG and physiological data (Skin conductance, Heart Rate, Pupilometry)
- Reporting the results of the analyses and publishing the findings in scientific journals

### EDUCATION AND TRAINING

01/09/2018 – 30/09/2019 London, United Kingdom

**MSC CLINICAL, SOCIAL AND COGNITIVE NEUROSCIENCE (DISTINCTION) CITY, UNIVERSITY OF LONDON**  
City University of London

**Website** <https://www.city.ac.uk> | **Final grade** Distinction |

**Thesis** Is vEAR Synesthesia a matter of cortical hyperexcitability? A psychophysical test of inhibitory processes in the visual cortex.

01/06/2010 – 01/06/2012 Bangalore, India

**MSC PSYCHOLOGICAL COUNSELING** Christ University

**Website** <https://www.christuniversity.in> | **Field of study** Clinical psychology |

**Thesis** An Exploratory Study on the Effects of Hypnosis on The Subjective Well-being of Post Graduate Students in Bangalore.

01/06/2008 – 01/06/2010 Bangalore, India

**BA, PSYCHOLOGY** Bangalore University

### LANGUAGE SKILLS

Mother tongue(s): **ENGLISH** | **MARATHI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
HINDI	C2	B2	C2	C2	

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Experience in MATLAB, python, and R

PUBLICATIONS

2022  
**The impact of the social context on the development of secondary hyperalgesia: an experimental study**

Jaltare, K. P., Vanderijst, L., Karos, K., & Torta, D. M. (2022). The impact of the social context on the development of secondary hyperalgesia: an experimental study. Pain, 10-1097.

2024  
**The Role of Pain Expectations in the Development of Secondary Pinprick Hypersensitivity: Behavioral-Neurophysiological Evidence and the Role of Pain-Related Fear**

Jaltare, K. P., Meyers, E., & Torta, D. M. (2024). The Role of Pain Expectations in the Development of Secondary Pinprick Hypersensitivity: Behavioral-Neurophysiological Evidence and the Role of Pain-Related Fear. The Journal of Pain, 104567.

2024  
**Verbal support from a stranger reduces the development of mechanical hypersensitivity: behavioural, electrophysiological evidence and the moderating role of attachment styles**

Jaltare, K. P., Manresa, J. B., Niwa, S., & Torta, D. M. (2024). Verbal support from a stranger reduces the development of mechanical hypersensitivity: Behavioral and neurophysiological evidence. The Journal of Pain, 25(10), 104599.

2023  
**Preprocessing choices do not affect the chances of observing increased scalp recorded gamma-band oscillations in the context of mechanical hypersensitivity**

Jaltare, K., Torta, D., van den Broeke, E. (2023). Preprocessing choices do not affect the chances of observing increased scalp recorded gamma-band oscillations in the context of mechanical hypersensitivity. OSF. doi: 10.31219/osf.io/ujvcy

2024  
**Experimentally induced central sensitization is accompanied by alterations in electroencephalographical microstate parameters**

Jaltare, K. P., & Torta, D. M. (2022). Experimentally induced central sensitization is accompanied by alterations in electroencephalographical microstate parameters. Pain, 10-1097.

2024  
[\*\*Jaltare, K. P., Torta, D., D'Agostini, M., De Voeght, L., Kinnart, M., & van den Broeke, E. \(n.d.\). Do negative expectations increase high-frequency electrical stimulation-induced secondary mechanical hypersensitivity? A replication study. Retrieved from osf.io/5psq9\*\*](#)

This paper is under review at the journal Royal Society Open Science. The url links to the pre-print on OSF.

## ● HONOURS AND AWARDS

---

15/02/2024

### Travel Grant – University of Toronto

---

I was granted a travel award for the Human Pain Seminar Series (HPSS) Summit hosted by the University of Toronto (Canada), in March 2024, where I presented a poster on the results of my paper on the EEG microstate changes associated with the development of secondary hyperalgesia.

25/03/2024

### IdeaLabs grant – KU Leuven, EuReCa center

---

I am part of the team that has recently won the IdeaLabs grant awarded by the KU Leuven EuReCa center. We are an interdisciplinary group of 5 researchers (PhDs and post-docs) from the Center for Developmental Psychiatry, Health Psychology and IMEC. Our goal is to organise a series of seminars and training sessions within KU Leuven over the next 2 – 3 years to build and share expertise in EEG spectral analysis techniques in the context of psychiatric disorders. The funding is for a maximum of three years.

## ● HOBBIES AND INTERESTS

---

### Hobbies outside work

---

- Martial Arts: Jiu Jitsu, Thai Boxing
- Meditation
- Statistics, Machine Learning and AI

## ● RELEVANT SKILLS

---

### Skills relevant to my research

---

- **Scientific Programming:** Proficient in MATLAB, Python, and R
- **Signal Processing and Analysis:** Extensive experience with EEG and psychophysiological signals (HRV, GSR, Pupillometry)
- **Machine Learning and AI:** Basic knowledge with practical applications in data analysis
- **Experimental Design and Research Methods:** Skilled in developing and implementing experimental protocols
- **Communication Skills:** Strong academic writing and verbal communication abilities
- **Interpersonal Skills:** Excellent teamwork and collaboration abilities in multidisciplinary research environments

## ● CLINICAL EXPERIENCE

---

01/09/2014 – 01/09/2018

### Addictions Psychologist and Program Manager DARA Rehab, Thailand

---

I worked as a clinical psychologist at an inpatient drug and alcohol rehabilitation centre. As the program manager, I was responsible for the clinical program that was implemented at the facility.

01/11/2013 – 30/06/2014

### Employee assistance psychologist 1TO 1 HELP .net, Bangalore

---