Moïra-Phoebé **Huet,** PhD

Postdoctoral Fellow, LCAP, Johns Hopkins University

Birth date: 18th July 1987 – Nationality: Belgian
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EDUCATION

2016 – 2020: Ph.D., Psychoacoustics, *INSA, University of Lyon, France*
2015 – 2018: Master, Statistics, *KUL, Belgium*
2012 – 2013: Master, Clinical neuropsychology and cognitive psychology, *ULB, Belgium*
2010 – 2012: Master, Consumers, work and organisational psychology, *ULB, Belgium*
2007 – 2010: Bachelor, Pedagogy and psychological sciences, *ULB, Belgium*

EMPLOYMENT HISTORY

Research **2020 – Present: Post-doc – Laboratory for Computational Audio Perception (LCAP), Johns Hopkins University, Baltimore, USA.** *Supervisor: Prof. Mounya Elhilali.* Investigating how cognitive functions (working memory, attention, goal demands) influence auditory and speech processing. Conducting behavioral and EEG experiments combined with computational modeling.

2016 – 2020: PhD – Lyon Neuroscience Research Center (CRNL) & The Laboratory of Vibration and Acoustics (LVA), University of Lyon, Lyon, France. *Supervisors: Dr. Etienne Gaudrain and Prof. Etienne Parizet.* Investigated voice separation in speech-on-speech situations with long speech stimuli through behavioral and neurophysiological studies.

Fall 2011: Research Assistant Internship – Brain Impact, Brussels, Belgium. *Supervisor: Arnaud Petre.* Examined how website design influences consumer behavior in an fMRI study.

Spring 2011: Research Assistant Internship – Consciousness, Cognition & Computation Group (CO3), Free University of Brussels (ULB), Brussels, Belgium. *Supervisor: Prof. Axel Cleeremans.* Investigated implicit valuation of consumer products using behavioral paradigms.

Teaching **Fall 2018: Undergraduate instructor in Statistics – Psychology Department, University Lyon 2, Lyon, France.** Delivered lectures and designed and assessed assignments for an undergraduate cognitive sciences course

Spring 2014: Substitute teacher in Social sciences, Philosophy and ethics and French – Three high schools (Athénée Royal), Brussels, Belgium. Designed and delivered lectures.

2009 – 2011: School coaching in Mathematics and English – Schola ASBL, Brussels, Belgium. I prepared and presented lectures in remedial courses.

2003 – 2015: Personal tutor in Math and Statistics, Belgium.

Other **2015 – 2016**: **Job counsellor**, *Actiris, Belgium*

2014: **Market researcher Jr.**, *Carré Associates, Belgium*

Summer 2012: **Clinical internship in neuropsychology**, *Molière Longchamp Hospital, Belgium*

Fall. 2011: **Market researcher internship**, *Keystone, Belgium*

PUBLICATIONS

Peer-reviewed publications:
- **Huet M.-Ph.,** Micheyl C., Gaudrain E., Parizet E. (2022). "Vocal and semantic cues for the segregation of long concurrent speech stimuli in diotic and dichotic listening—The Long-SWoRD test." *J. Acoust. Soc. Am. 151*(3). Pp. 1557-1574. doi:10.1121/10.0007225
- **Huet M.-Ph**., Micheyl C., Parizet E., Gaudrain E. (2021). "Behavioral account of attended stream enhances neural tracking." *Front. Neurosci.* 15:674112. doi: 10.3389/fnins.2021.674112
- **Huet, M.-Ph.,** Micheyl, C., Gaudrain, E., & Parizet, E. (2018). "Who are you listening to? Towards a dynamic measure of auditory attention to speech-on-speech." In *proceedings of Interspeech 2018,* Hyderabad, India. pp. 2272-2275. doi:10.21437/Interspeech.2018-2053.

Book Chapter:
- Gaudrain, E., & **Huet, M.-Ph** (2022). "Perception de la parole en contexte et rôle des oscillations cérébrales. " In S. Samson, B. Tillmann, C. Jourdan, & V. Brun (Eds.), *Audition and cognition* (pp. 91-102). Sauramps Médical. ISBN 9791030302578.

Preprint:
- **Huet M.-Ph.** & Elhilali M. (2025). "The shape of attention: How cognitive goals sculpt cortical representation of speech". *bioRxiv*, 2025-05. doi: 10.1101/2025.05.22.655464

Articles in preparation:
- **Huet M.-Ph.,** Micheyl C., Parizet E., Gaudrain E. (in prep.). "The effect of vocal characteristics on brain's temporal response function".

COMMUNICATIONS

Conferences:
- **Huet M.-Ph. &** Elhilali M. (2025). "The shape of attention: How cognitive goals sculpt cortical representation of speech" *CogHear 2025*, College Park, USA. Poster.
- **Huet M.-Ph. &** Elhilali M. (2025). "Neural representation of auditory sound categories across cognitive tasks in electroencephalography." *188th Meeting of the Acoustical Society of America*, New Orleans, USA. Poster.
- **Huet M.-Ph. &** Elhilali M. (2024). "Neural tracking of different cognitive tasks in human EEG" *Forty seventh ARO Mid-Winter meeting*, Anaheim, USA. Presentation.
- **Huet M.-Ph.,** Micheyl C., Gaudrain E., Parizet E. (2019). "Decoding listener's attention: Can it be improved with behavioral measure of selective attention?" *177th Meeting of the Acoustical Society of America*, Louisville, USA. Poster. doi:10.1121/1.5101314.
- **Huet M.-Ph**., Micheyl C., Gaudrain E., Parizet E. (2019). "Brain's temporal response function: Can it be improved with behavioral account of attended stream?" *11th Speech in Noise Workshop*, Ghent, Belgium. Poster.
- **Huet M.-Ph.,** Micheyl C., Gaudrain E., Parizet E. (2018). "Who are you listening to? Towards a dynamic measure of auditory attention to speech-on-speech." *19th Interspeech event,* Hyderabad, India. Presentation.
- **Huet M.-Ph.,** Micheyl C., Gaudrain E., Parizet E. (2018). "Who are you listening to? Behavioral measure for decoding listener's attention." *4th Symposium on cutting-edge methods for EEG research*, Paris, France. Poster.
- **Huet M.-Ph.**, Micheyl C., Gaudrain E., Parizet E. (2018). "Who are you listening to? Behavioral measure for decoding listener's attention." *11èmes Journées Jeunes Chercheurs en audition, acoustique musicale et signal audio*, Brest, France. Poster.
- **Huet M.-Ph**., Micheyl C., Gaudrain E**.**, Parizet E. (2018). "Who are you listening to? Behavioral measure for decoding listener's attention." *1st Auditory EEG Signal Processing symposium*, Leuven, Belgium. Poster.

- **Huet M.-Ph.**, Micheyl C., Gaudrain E., Parizet E. (2018). "Qui écoute-t-elle? Vers une mesure dynamique de l'attention auditive à la parole." *14ème Congrès Français d'Acoustique*, Le Havre, France. Presentation.
- **Huet M.-Ph.**, Micheyl C., Gaudrain E., Parizet E. (2018). "Vers une mesure dynamique de l'attention auditive dans un scenario de Cocktail Party." *Journée des doctorants CeLyA*, Lyon, France. Presentation.
- **Huet M.-Ph.,** Micheyl C., Gaudrain E., Parizet E. (2018). "Who are you listening to? Towards a dynamic measure of auditory attention to speech-on-speech." *10th Speech in Noise Workshop*, Glasgow, United-Kingdom. Poster.
- **Huet M.-Ph.**, Micheyl C., Gaudrain E., Parizet E. (2017). "Qui écoute-t-elle, maintenant? Vers une mesure dynamique de l'attention auditive à la parole." *3èmes Journées Perception Sonore*, Brest, France. Poster.
- **Huet M.-Ph.**, Atas A., Gevers W., Cuny C. Cleeremans, A. (2011). "Can product value be represented implicitly?" *21th Annual Meeting of the Belgian Association for Psychological Sciences*, Ghent, Belgium. Poster.

Seminars:
Huet M.-Ph. (2023). "Psychoacoustics", *Johns Hopkins University,* Baltimore, US, 31 October 2023.
Huet M.-Ph. (2023). "Exploring Speaker Segregation and Task Demand Effects in Human Neural Tracking", *Center of Hearing and Balance,* Baltimore, US, 11 April 2023.
Huet M.-Ph. (2022). "The neural tracking of speakers in psychoacoutics", *UMons University,* Mons, Belgium, 11 January 2022.
Huet M.-Ph. (2021). "Psychoacoustics", *Johns Hopkins University,* Baltimore, US, 4 November 2021.
Huet M.-Ph. (2019). "Brain's temporal response function: Can it be improved with behavioural account of attended stream", *Labex CeLya,* Lyon, France,4 February 2019.
Huet M.-Ph. (2018). "Who are you listening to? Towards a dynamic measure of auditory attention to speech-on-speech", *University Medical Center Groningen,* Groningen, Netherlands, 18 May 2018.

SUPERVISION

Master students:
o Aurelie Allheilig (2016), Alice de Gabrielli (2016), Julien Haye (2016), Célia Maldonado (2016), Laurie Bazin (2017), Lina Bourgeois (2017), Lucie Vallet (2017), Alice Witkowski (2017), Charline Lafont (2018), Mathilde Quentel (2018), Master in Speech therapy, 3 weeks internship at the Lyon Neuroscience Research Center (CRNL), Lyon, France.

Undergraduate students:
o Mary Shin (2021-2023)
o Andrea Ruitao Liu (2023 – 2024)

HONORS & PROFESSIONAL ACTIVITIES

Leadership & Event Organization:
2023-2024: **Co-President** of the Homewood Postdoctoral Association, Johns Hopkins University.
2022-2023: **Secretary** of the Homewood Postdoctoral Association, Johns Hopkins University.
2018: **Organizer** & **Session Chair** – CeLyA Doctoral Day, March 8, 2018
2017 & 2018: **Co-creator and facilitator** of an interactive workshop at the Science Festival

Peer Review Activities:
2021-: **Reviewer** for Frontiers in Neuroscience (2), Hearing Research (1) and JASA (1)

Awards & Outreach Achievements:

2024: **Winner** of the Coding Challenge Competition, organized by Johns Hopkins University.

2018: Regional **Finalist** in the "My Thesis in 180 Seconds" (MT180) competition, Lyon, France.

2018: **Best poster jury award** at the 11èmes Journées Jeunes Chercheurs en audition, acoustique musicale et signal audio, Brest, France.

SKILLS

Technical skills:
- **Programming & Data Analysis:** Python, MATLAB, R, SPSS, JASP
- **Experimental Tools:** OpenSesame, E-Prime
- **Productivity & Writing**: Microsoft Office, LaTeX
- **Graphic Design**: Photoshop, Illustrator

Languages
- French: Native l English: Fluent (C1)