

CURRICULUM VITAE



Personal information

Name Charlotte Roy
Citizenship France
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Academic Employment

since 2020 Postdoctoral researcher in the Epilepsy Center (Andreas Schulze-Bonhage, Dr. Pr.), University Hospital, Freiburg, Germany

2017-2020 Research scientist in the Applied Cognitive Psychology Department (Marc Ernst, Ph.D, Pr.), Institute for Psychology and Education, Ulm University, Germany

2017-2020 Undergraduate and graduate instructor, Institute for Psychology and Education, Ulm University, Germany

2013-2015 Teaching assistant, EuroMov laboratory, Sport Sciences Faculty, Montpellier University, France

Education

2017 Ph.D., Human Movement Sciences, University of Montpellier
Dissertation: *Effect of audio-tactile stimulation on movements of coordination*
Dissertation Advisors: Julien Lagarde, Ph.D., Simone Dalla Bella, Ph.D, Pr.

2013 M.S.c, Human Movement Sciences, University of Montpellier
Thesis: *Effect of variability of an auditory stimulation on perception and gait kinematic*
Thesis Advisor: Simone Dalla Bella, Ph.D, Pr.

2011 M.A., Psychology, University of Montpellier
Thesis: *Dynamical approach of time and rhythm perception*
Thesis Advisor: Dennis Brouillet, Ph.D, Pr.

2009 B.A, Psychology, University of Montpellier

List of Publications

Roy, C., Wiebusch, D., & Ernst, M. (Pre Print 2020, April 22). Where did I park my car? Influence of landmark permanency on navigation. <https://doi.org/10.31234/osf.io/gq6d5>. (Under review. Journal of Experimental Psychology: General)

Roy, C., Dalla Bella, S., Pla, S., & Lagarde, J. (2019). Multisensory integration and behavioral stability. *Psychological Research*. <https://doi.org/10.1007/s00426-019-01273-4>

Roy, C., Dalla Bella, S., & Lagarde, J. (2017). To bridge or not to bridge the multisensory time gap: Bimanual coordination to sound and touch with temporal lags. *Experimental Brain Research*, 235(1), 135–151. <https://doi.org/10.1007/s00221-016-4776-4>

Roy, C., Lagarde, J., Dotov, D., & Dalla Bella, S. (2017). Walking to a multisensory beat. *Brain and Cognition*, 113, 172–183. <https://doi.org/10.1016/j.bandc.2017.02.002>

Roy, C., Wiebusch, D., & Ernst, M. (in preparation). Human Navigation in the Third Dimension.

List of Third-Party Funds

02.2020 Start-up founding Grant, Ulm University, Germany. 72 k€ 2 years.

02.2020 Associated Researcher to a collaborative European Grant, Crowd-DNA, H2020-FETOPEN-899739. Ulm: 410 k€ 42 months. Total: 2 M€ 42 months.

2013-2016 Fellowship French Ministry of Research, Montpellier University. 80 k€ 3 years.

2013-2016 Member of the European Research Project BeatHealth, FR7-ICT-2013-10.

Conference Presentations

Roy C., Wiebusch D., & Ernst M. (2020). Adding dimensions to human navigation: vertical & time. 1st GK Doktorat Symposium. Tübingen, Germany.

Roy C., Lagarde J., & Dalla Bella S. (2016). Walking to a multisensory beat: Benefits of audio-tactile rhythmic stimulation. International Multisensory Research Forum (17th IRMF). Souzhou, China.

Roy C., Lagarde J., & Dalla Bella S. (2016). Walking to a multisensory beat: Benefits of audio-tactile rhythmic stimulation. Doctoral Day, Marseille, France.

Decker L., **Roy C.,** Marmelat, V., Torre K., Ramdani S., & Dalla Bella S. (2014). Optimisation de la stimulation auditive rythmique en vue d'améliorer la rééducation de la fonction locomotrice. Neurophysiologie Clinique/Clinical Neurophysiology.

Posters

Roy C., Wiebush D., & Ernst M. (2019). Where did I park my car? Influence of landmarks' permanency on navigation. *Vision Science Society*. Florida, USA.

Roy C., Wiebush D., & Ernst M. (2018). Where did I park my car? Influence of landmarks' permanency on navigation. *Spatial Cognition Conference*. Tübingen, Germany.

Roy C., Dalla Bella S., & Lagarde J. (2015). To bridge or not to bridge the time gap: Bimanual coordination to sound and touch. *ACAPS*, Nantes, France.

Roy C., Dalla Bella S., & Lagarde J. (2015). To bridge or not to bridge the time gap: Bimanual coordination to sound and touch. *Rhythm Perception and Production*. Amsterdam, Netherlands.

Roy C., Dalla Bella S., & Lagarde J. (2015). To bridge or not to bridge the time gap: Bimanual coordination to sound and touch. Doctoral Day, Nice, France.

Decker L., **Roy C.,** Marmelat, V., Torre K., Ramdani S., & Dalla Bella S. (2013). Seeking an optimality criterion for gait improvement. EuroMov Inaugural Conference, Montpellier, France.

Awards

2016 Award of Best Oral Presentation, School Day, France

2015 Winner of 3 min Thesis, France (<https://www.youtube.com/watch?v=zKAt0808hW4>)

2015 Award of Best Poster, School Day, France

2013 Award of Best Poster, EuroMov, France

Teaching

Master level seminars (280h)

- Navigation in Animals, Men and Machines, Ulm University (Master first & second year, 3 semesters)
- The misleading senses: when we can't rely on our senses anymore, Ulm University (Master first & second year, 2 semesters)

Master level lecture (3x4h)

- Navigation: from strategies to neurosciences, Ulm University (one course)

Bachelor level seminars (128h)

- Developmental Psychology: from birth to death, University of Montpellier (Bachelor first year, 2 semesters)
- Neurosciences of Sport Performances, University of Montpellier (Bachelor second year, 2 semesters)
- Learning, Motivation & Performances in Sport, University of Montpellier (Bachelor second year, 2 semesters)
- Group Affects and Group Dynamics, University of Montpellier (Bachelor third year, 1 semester)

Thesis Supervision

- 5 Master's theses (Ulm University)
 1. Oliver Franz (2020) "Adding the third dimension to Human navigation"
 2. Alexandra Linowski (2019) "The Prior of Being Straight on Walking in Circle Behavior"
 3. Isabelle Canizzaro (2019) "Navigation in 3 dimensions: ecological experiment"
 4. Regina Kessler (2018) "Effect of Landmark's Permanency on navigational strategies"
 5. Jens Flory (2018) "Effect of Posture on Walking in Circle Behavior"
- 7 Bachelor's theses (Ulm University)
 1. Miriam Lipping (2020) "Navigation in 3 dimensions: influence of the vertical in virtual reality"
 2. Carolina Gaul (2020) "Navigation in 3 dimensions: influence of the vertical in virtual reality"
 3. Lara Mattuschat (2019) "3 D navigation in virtual reality"
 4. Harriet Lingel (2019) "Navigation in 3 dimensions: ecological experiment"
 5. Ann-Kathrin Kiechle (2019) "Relation Between the behavior of Veering and Circling?"
 6. Romina Loidold (2017) "Effect of Posture on Walking in Circle Behavior"
 7. Lea Hundertmark (2017) "Landmark's permanency on Navigation"
- 3 Project supervision (Ulm University)
 1. Nehchal Kaur & Asmita Narang (2019)
 2. Aman Tiwari (2018)
 3. Cesar Cordova (2017)

Academic Activities & Responsibilities

- Manuscript Reviewer for
 - Journal of Experimental Psychology: Human Perception and Performance
 - PlosOne
 - Attention Perception and Psychophysic

- Professional affiliations
 - o Vision Science Society
 - o International Multisensory Research Forum
- Member of the Subject Examination Board Cognitive Systems, Ulm University, 2019-2020
- Member of the Organizing committee of the IMRF conference, Ulm University, June 2020
- Elected Student to the Doctoral School Council, Marseille-Nice-Montpellier, 2013-2016
- Elected Student to the Management Board of the Faculty, Montpellier, 2013-2015
- Organization of the School Day Research Conference, hosting 150 participants, Nice, 2015
- Secretary of the PhD association *AssoDocSMH*, Marseille-Nice-Montpellier, 2013-2016
- Organization of the weekly laboratory meeting, Montpellier, 2013-2016

Relevant skills

- o Programming ability in Matlab and R
- o Fluent in French (mother tongue) and English
- o German, learning in process (Level B1-B2) / Spanish (Level B1)