

Laura Mikula



Lyon, France



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EDUCATION

Nov 2014 - Jun 2018 **Ph.D - Neuroscience and Cognition**
[Université Claude Bernard Lyon 1, France](#)

Sep 2012 - Jul 2014 **M.Sc - Research in Neuroscience**
[Université Claude Bernard Lyon 1, France](#)

Nov 2014 - Jun 2018 **Ph.D - Vision Science**
[Université de Montréal, QC, Canada](#)

Sep 2009 - Jun 2012 **B.Sc - Science, Technology and Health; Physiology**
[Université Claude Bernard Lyon 1, France](#)



RESEARCH EXPERIENCE

Nov 2014 - Jun 2018 **Joint Ph.D thesis: “Multisensory integration for pointing movements in healthy subjects and patients with optic ataxia”**

[ImpAct team, Lyon Neuroscience Research Center \(CRNL\), France](#)

[VISATTAC laboratory, School of Optometry, Montréal QC, Canada](#)

Supervisors: Laure Pisella & Aarlenne Z Khan

Single-case studies and statistics | 3D motion capture (Optotrak system) | Eye-tracking (EyeLink system)

Jan 2014 - May 2014 **Student internship: “Contribution of visual and proprioceptive information to pointing movements”**

[ImpAct team, Lyon Neuroscience Research Center \(CRNL\), France](#)

Supervisor: Laure Pisella

3D motion capture (Optotrak system) | Electrooculography | Kinematic analysis of reaching movement

May 2013 **Student internship: “Modulation of nociceptive information processing during paradoxical sleep in humans”**

[Neuropain team, Lyon Neuroscience Research Center \(CRNL\), France](#)

Supervisor: Dr. H       Bastuji

Stereo-electroencephalographic (SEEG) signals reading | Intracerebral evoked potentials (BrainVision Analyzer software)



ACADEMIC EMPLOYMENT

Sep 2015 - Dec 2015 **Teaching assistant in “Neurophysiology of Eye Movements”**

[School of Optometry, Universit   de Montr    l, QC, Canada](#)

Lab work on eye movement recording (EyeLink 1000 Plus) | Assistant lecturer



SKILLS

Computer knowledge

- Mac OS and Windows user
- Kinematic and data analysis with Matlab
- Statistics with Statistica, SPSS and Matlab
- Vector drawing with Adobe Illustrator and CorelDRAW
- Writing with Microsoft Office and LaTeX

Languages

- French: native ■■■■■
- English: fluent ■■■■■
- Spanish: elementary ■■■■■



GRANTS AND AWARDS

- Dec 2017 Excellence scholarship
Faculté des Etudes Supérieures et Postdoctorales (FESP) & École d'Optométrie de l'Université de Montréal (ÉOUM), Canada
- Sep 2017 - Mar 2018 Scholarship for end of PhD studies
Faculté des Etudes Supérieures et Postdoctorales (FESP), Canada
- Jul 2017 Additional funding for students
Groupe de Recherche en Sciences de la Vision (GRSV), Canada
- Feb 2016 Winner of the contest "Votre recherche en BD & vidéo" (Your research in comics and video); comics part
Fédération des Associations Étudiantes du Campus de l'Université de Montréal (FAÉCUM), Canada
- Sep 2015 - Dec 2015 Doctoral mobility fellowship (4 months in Montréal)
LabEx CORTEX, France
- Jan 2015 - Jun 2015 Doctoral mobility fellowship (6 months in Montréal)
Programme Avenir Lyon Saint-Étienne (PALSE), France



PUBLICATIONS

- Mikula L, Blohm G, Khan AZ, Pisella L. Movement drift in optic ataxia reveals deficits in hand state estimation. *Cortex*, under review.
- Mikula L, Jacob M, Tran T, Pisella L, Khan AZ (2018). Spatial and temporal dynamics of pre-saccadic attentional facilitation before pro- and anti-saccades. *Journal of Vision*, 18(11):2, 1-16.
- Mikula L, Sahnoun S, Blohm G, Pisella L, Khan AZ. (2018). Vibrotactile information improves proprioceptive reaching target localization. *PLOS ONE*, 13(7): e0199627.
- Mikula L, Gaveau V, Pisella L, Khan AZ, Blohm G. (2018). Learned rather than online relative weighting of visual-proprioceptive sensory cues. *Journal of Neurophysiology*, 119(5), 1981-1992.



PRESENTATIONS

Posters

- Mikula L, Pisella L, Blohm G, Khan AZ. Involvement of the posterior parietal cortex in online control of reaching. *Society for Neuroscience 2017, Washington DC, USA*.
- Mikula L, Jacob M, Tran T, Pisella L, Khan AZ. Temporal dynamics of attention before anti-saccades. *Vision Sciences Society 2016, St. Pete Beach, USA*.
- Mikula L, Jacob M, Tran T, Pisella L, Khan AZ. Temporal dynamics of attention before anti-saccades. *Doctoral School Neuroscience and Cognition Annual Scientific Meeting 2016, Lyon, France*.
- Mikula L, Pisella L, Blohm G, Khan AZ. Proprioceptive weights are independent of left and right hand sensory reliabilities. *21st Annual Meeting of the FRQS Vision Health Research Network 2015, Québec city, Canada*.
- Mikula L, Pisella L, Blohm G, Khan AZ. Proprioceptive weights are independent of left and right hand sensory reliabilities. *Society for Neuroscience 2015, Chicago, USA*.
- Claude L, Sauzeau J-B, Mikula L, Perchet C, Magnin M, Garcia-Larrea L, Mazza S, Bastuji H. Modulation of nociceptive information processing during paradoxical sleep: an intracerebral recording study in Humans. *Congress of the EFIC (European Federation of IASP Chapters) 2013, Florence, Italy*.

Talks

- Intégration visuo-proprioceptive pour l'action. *Rencontres Mouvement et Handicap 2018, Lyon, France*.
- Involvement of the posterior parietal cortex in online control of reaching. *Doctoral School Neuroscience and Cognition Annual Scientific Meeting 2017, Lyon, France*.
- Proprioceptive weights are independent of left and right hand sensory reliabilities. *CORTEX Students Club, Lyon, France*.