

## Curriculum Vitae of Stefania Mattioni

### GENERAL DATA AND OVERVIEW

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#### Personal Information

Address: Rue Caporal Claes, 1030 Bruxelles (Belgium)

Email address: stefania.mattioni87@gmail.com

Date and place of birth: 09/07/1987, Senigallia (AN), Italy

Citizenship: Italian and Belgian

Native Language: Italian

Other Languages: English (C1); French (C1).

#### Work interruption

Sept 2020 – Jan 2021: Maternity leave

Dec 2024 – June 2025: Maternity leave

#### Current Position

Post Doc and fMRI support researcher, [department of experimental psychology](#), UGent, Belgium

#### Education

2018: Ph.D in Cognitive Neuroscience. Center for Mind and Brain (CIMeC), University of Trento (Italy). Dissertation

title: "How input modality and visual experience affect the representation of categories in the brain".

Supervisor: Prof. Olivier Collignon

2013: Professional exam of the psychology profession (*Esame di Stato per la professione di psicologo*)

2012: Master Degree in neuroscience and neuropsychological rehabilitation (110/110). University of Bologna, Cesena (Italy).

2009: Bachelor's degree in Behavioral Science and Social Relations (110/110 cum laude). University of Bologna, Cesena (Italy).

2006: High-school degree. Liceo classico "G.Perticari", Senigallia (AN,Italy)

#### Professional experiences

Jun 2022 – Ongoing (June2029) : Post Doc fMRI in the department of experimental psychology, UGent, Belgium

Oct 2021 – Jun 2022 : Post Doc in the [Hoplab](#) (Prof. Hans Op de Beeck), KU Leuven, Belgium

April 2018-Sept 2021: Post Doc position in the [Crossmodal Perception & Plasticity lab](#) (Prof. Olivier Collignon), Université catholique de Louvain, Louvain-la-Neuve, Belgium.

Nov 2013-March 2018 : Ph.D. in Cognitive Neuroscience. Center Brain/Mind CIMec, University of Trento (Italy).

Apr 2013-July 2013 : Research Assistant (Neuroscience) at Prof. Matthew Longo's lab: Body representation Laboratory Department of Psychological Science Birkbeck University of London (UK).

Apr 2013-Oct 2012: Vocational training in the field of brain injury and degenerative diseases in adults (500 hours). Rehabilitation clinic Santo Stefano – Villa Adria, Ancona (Italy).

Oct 2011-Apr 2013: Vocational training in a rehabilitation clinic for children with mental disease (500 hours). Centre "E. Bignamini – Don Gnocchi", Falconara Marittima (AN, Italy).

Jan 2009-July 2009: Internship in Neuropsychology/Neuroscience (300 hours). Centre for Studies and Research in Cognitive Neuroscience (CsrNC), Cesena (Italy). Research activities on affective blindsight in patients and on redundant target effect in healthy subjects.

## Digital and Technical Skills

- Excellent knowledge of programming in Matlab;
- Basic knowledge of programming in Python;
- Excellent knowledge of statistical softwares (SPSS, Jasp);
- fMRI data analyses skills:
  - Univariate analysis, GLM (excellent knowledge of SPM software, Matlab);
  - Multivariate pattern classification analysis (Matlab and cosmoMVPA toolbox);
  - Representational Similarity Analysis (Matlab and cosmoMVPA toolbox, I followed the Cambridge RSA workshop 2015 organized by N. Kriegeskorte);
  - Functional connectivity analysis - Psychophysiological Interaction;
  - Structural/morphometry analyses (Freesurfer software);
- Behavioral experiment related skills, including design, stimuli delivery (Matlab , Python, OpenSesame) and data analysis (Matlab, R).
- Excellent data visualization skills.

## SCIENTIFIC ACTIVITIES

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**Main research interests:** Cognitive Neuroscience; Development of cognitive and brain functions; Blindness; Crossmodal plasticity; Sight Restoration; Concepts and language brain representation/processing; Sign-language; Bilingualism; functional magnetic resonance imaging - fMRI.

## Current collaborations

- Profs D. Maurer & T. Lewis (McMaster Uni.): Multisensory reorganization in cataract-recovery patients.
- Prof ..Hans Op de Beeck (Uni. of Leuven): Representation of sign language in the visual word form area.
- Prof Jorge Jovicich and MRI method group (Uni. Of Trento): Connectivity profile of early and late blind subjects.
- Prof .Robert Hartsuiker (UGent): Lexical and semantic representation across multiple languages.
- Prof. Olivier Collignon (UCLouvain): Studies on crossmodal plasticity, sight recovery and sign language.
- Collaborating in multiple fMRI projects at UGent experimental psychology as fMRI expert (profs Wim Fias, Senne Braem, Tom Verguts, Ruth Krebs, Clay Halroyd, Daniele Marinazzo...)
- Prof. Xiaoqing Gao (Zhejiang University, China): study on brain regions involved in familiar person perception through faces and voices
- Dr. Jodie Davies-Thompson (Swansea University): studies on auditory perception in blind individuals and on sign language in hearing and deaf signers.
- Prof. Arthur Marchewka (Nencki Institute, Poland): study on categorical representation in deaf individuals.

#### Scholarships for international mobility and grants

2024: FWO Short Research Stay Abroad Grant. 20 days at CIMeC – Trento University (Italy)

2022: Grant from Assucopie to support publication fees.

Oct 2021-Sept 2022: 1-year Postdoctoral Fellowship (PDM Type I) at KU Leuven, awarded to highly ranked applicants on the FWO reserve list, bridging towards a new FWO application.

2020: I was offered a five-year Principal Investigator position at NeuroSpin and the Vision Institute in France, collaborating with esteemed researchers such as Stanislas Dehaene, Ghislaine Dehaene-Lambertz, Jose Sahel, Serge Picaud, and Laurent Cohen. (Declined due to personal constraints)

2020: FNRS + IPSY travel grant for an abroad meeting (IMRF) in Ulm, Germany.

2019: FNRS + IPSY travel grant for an abroad meeting (OHB) in Rome, Italy.

2018: IPSY travel grant for an abroad meeting (The blind brain workshop) in Lucca, Italy

Jan 17-Ago 17: Scholarship for Erasmus + Internship project. Université Catholique de Louvain, Louvain-la-Neuve (Belgium).

Jan 10-Jun 10: Scholarship for Erasmus Project. University of Tromsø, Faculty of Health Sciences, Norway.

#### Distinctions

2024: Best presentation at CAOS conference (Rovereto, Italy).

2015: Best oral presentation at CIMeC Ph.D day.

#### Invited lectures at universities and institutions

06/22 : How sensory input and visual experience affect the categorical representation in the ventral occipito-

temporal cortex. Center for Cognitive Neuroscience Seminar Series, (UGent, Belgium);

01/22: How sensory input and visual experience affect the categorical representation in the ventral occipito-temporal cortex. Plasticity Seminar Series (PI : T. Makin, UCL, London);

10/21 : How sensory input and visual experience affect the categorical representation in the ventral occipito-temporal cortex. Brain & Cognition Seminars (KULeuven, Belgium).

04/19: How sensory input and visual experience affect the categorical representation in the occipital-temporal cortex of sighted and blind. Laboratory of Biological Psychology (PI: H.Op de Beeck, KULeuven, Belgium).

#### **Lectures at conferences' symposia and workshops**

09/25: Symposium: *Brain Plasticity*. Brains united – Neuroscience conference (by the LBI -KULeuven and IONS – UCLouvain). Leuven & Brussels, Belgium.

09/24: Symposium: *Reevaluating Cortical Plasticity: Insights from Congenital Sensory Deprivation* Italian association of Psychology (AIP) - experimental psychology meeting, University of Messina, Noto, Italy.

09/23: Symposium: *Understanding the Blind Brain*. 16<sup>th</sup> International Congress of the Polish Neuroscience Society, Torun, Poland .

06/23: Symposium: *Post-natal transient blindness: how does the visual system cope with it?* International Multisensory Research Forum (IMRF), UCLouvain, Brussels, Belgium (Organizer of the symposium).

05/22: Symposium: *Organization and perturbation of the human ventral occipito-temporal cortex*. Belgian Association for Psychological Sciences (BAPS), KULeuven, Leuven, Belgium (Organizer of the symposium).

09/21: Symposium: *How does visual experience shape representations and transformations along the ventral stream? Generative adversarial collaboration at Cognitive Computational Neuroscience*. Online meeting.

10/20: Symposium: *New insights on multisensory brain organization from MVPA to laminar fMRI*. International Multisensory Research Forum (IMRF), Ulm, Germany. Cancelled because of Covid-19

05/18: *The balanced act of cross-modal and intra-modal plasticity*. Royal Academies for Sciences and Arts of Belgium, Bruxelles. Symposium : Windows on brain plasticity .

02/16: Workshop on 'Space Perception' at University of Louvain. Louvain-la-Neuve (Belgium).

#### **Selected lectures at conferences (First author)**

11/25: Impact of a transient neonatal visual deprivation on the development of the ventral occipito-temporal cortex in humans. **Neurocog 2025**, Bruxelles (Belgium).

11/25: Sign language representation in the visual brain. **Workshop on Sign Language Grammars, Parsing Models, & the Brain**, MPI Leipzig (Germany).

05/25: Exploring the role of the Visual Word Form Area in processing Sign Language. Psycholinguistics in Flanders (**PiF 2025**), Lille (France). (Accepted as a talk but canceled due to an extension of maternity leave).

05/24: Impact of a transient period of early blindness on the development of the ventral occipito-temporal cortex. Rovereto Workshop on Concepts, Action and Object: Functional and Neural Perspective (**CAOs**), Rovereto (Italy). Price for best

presentation.

01/24: Categorical coding in the ventral occipito-temporal cortex (VOTC) following transient early blindness. European Workshop on Cognitive Neuropsychology (**EWCN**), Bressanone, Italy.

12/23: Exploring the role of the Visual Word Form Area in processing Sign Language. Groupe de Contact FNRS Psycholinguistique et Neurolinguistique (**GCPN**). Louvain-la-Neuve, Belgium.

06/23: Categorical coding in the ventral occipito-temporal cortex (VOTC) following transient early blindness. 15<sup>th</sup> meeting of Belgian Society for Neuroscience (**BSN**), Brussels, Belgium.

06/20: How the onset of blindness affects the interplay between crossmodal and intramodal plasticity. Organization for Human Brain Mapping (**OHBM**) Annual Meeting, Online meeting.

04/20: Categorical representation from sound and sight in the ventral occipito-temporal cortex of sighted and blind.

**Elife and COVID-19:** Keeping communications open with online research talks, Online meeting.

09/19: Similar categorical representation from sound and sight in the occipito-temporal cortex of sighted and blind. Conference of the European Society for cognitive psychology (**ESCOPE**), Tenerife, Spain.

08/19: Similar categorical representation from sound and sight in the occipito-temporal cortex of sighted and blind. European Conference on Visual Perception (**ECVP**), Leuven, Belgium.

06/19: How input modality and visual experience affect the neural encoding of categorical knowledge. Organization for Human Brain Mapping (**OHBM**) Annual Meeting, Rome, Italy.

05/18: The balanced act of crossmodal and intramodal plasticity: Enhanced representation of auditory categories in the occipital cortex of early blind people links to reduced temporal coding. Annual Vision Sciences Society (**VSS**) Meeting, St. Pete Beach, Florida, USA.

10/15: Investigating the functional organization of the ventral visual pathway in blindness. University of Trento, Center for Mind/Brain Sciences (**CIMeC**), Rovereto (TN), Italy; Doctoral School Day. Price for best oral presentation.

#### **Posters presented at conferences (First author)**

05/24: Supramodal representation of emotion expression across the face and voice networks. Escan 2024, Ghent, Belgium.

05/24: Impact of a transient period of early blindness on the development of the ventral occipito-temporal cortex. Rovereto Workshop on Concepts, Action and Object: Functional and Neural Perspective (CAOs), Rovereto (Italy). Price for best presentation.

01/24: Categorical coding in the ventral occipito-temporal cortex (VOTC) following transient early blindness. European Workshop on Cognitive Neuropsychology, Bressanone, Italy.

11/23: Exploring the role of the Visual Word Form Area in processing Sign Language. Neurocog 2023. Brussels, Belgium.

11/21: How the onset of blindness affects the interplay between crossmodal and intramodal plasticity. Neurocog 2020. Louvain la Neuve, Belgium.

06/20: How the onset of blindness affects the interplay between crossmodal and intramodal plasticity. Organization for Human Brain Mapping (OHBM) Annual Meeting, Online meeting.

06/19: How input modality and visual experience affect the neural encoding of categorical knowledge. Organization

for Human Brain Mapping (OHB) Annual Meeting, Rome, Italy.

10/18: The balanced act of crossmodal and intramodal plasticity: Enhanced representation of auditory categories in the occipital cortex of early but not late blind people links to reduced temporal coding. The blind brain workshop. Lucca - Italy.

05/18: How input modality and visual experience affect the neural encoding of categorical knowledge. 19th Annual International Multisensory Research Forum (IMRF) , Toronto – Canada.

05/18: How input modality and visual experience affect the neural encoding of categorical knowledge and intramodal plasticity for the processing of auditory categories. IPSY Day, UCLouvain – Louvain-la-Neuve, Belgium.

05/18: How input modality and visual experience affect the neural encoding of categorical knowledge. University of Trento, Center for Mind/Brain Sciences (CIMeC), Rovereto (TN), Italy, Concepts, Actions and Objects (CAOs) Workshop.

12/17: How input modality and visual experience affect the representation of categories in the lateralised brain. National Brain Research Centre - Delhi, India, BrainModes.

10/17: How input modality and visual experience affect the representation of categories in the lateralised brain. Rovereto, Italy, Ten years of Mind/Brain sciences at University of Trento.

05/17: A-modal versus Cross-modal: How input modality and visual experience affect the representation of categories in the brain. St. Pete Beach, USA, Annual Meeting of the Vision Sciences Society (VSS).

11/16: Mapping the acoustical and categorical features of sounds in the occipital cortex of blind and sighted people. University of Leuven - KU Leuven, Belgium, Neurocog'16 meeting.

05/16: Features vs Categories: dissociable representation between physical and categorical features of sounds in the occipital cortex of blind people. University of Trento, Center for Mind/Brain Sciences (CIMeC), Rovereto (TN), Italy, Concepts, Actions and Objects (CAOs) Workshop.

### Organization of symposia

06/23: Accepted symposium: *Post-natal transient blindness: how does the visual system cope with it?* International Multisensory Research Forum (IMRF), Bruxelles, Belgium.

05/22: Accepted symposium : *Organization and perturbation of the human ventral occipito-temporal cortex.* Belgian Association for Psychological Sciences (BAPS), KULeuven, Leuven, Belgium.

### Organization of conferences and workshops

02/26: Member of organising committee for MaRBEL (Magnetic Resonance Belgium) 2026 in Ghent (ongoing organization).

11/25: Neurog2025 conference organized by UGent (ongoing organization).

06/23: International Multisensory Research Forum - IMRF 2023, organized in Brussels.

11/21: Neurog2020 conference organized at UCLouvain.

11/19: 3 days MRI workshop at UCLouvain organized by the CPP lab. Slides & Codes: <https://github.com/cpp-lin>

## ACADEMIC ACTIVITIES

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### Teaching

2022- Ongoing: **co-lecturer** for the course "Introduction to Neuroimaging" (**UGent** master, experimental psychology department) for the sessions: fMRI basics and fMRI analyses.

Fall 2026: **Invited lecturer** at Université Libre de Bruxelles (ULB), Belgium – 18-hour, one-semester course titled *Psychophysiologie et Neuroimagerie* (temporary replacement during maternity leave).

09/25: A theoretical lecture on fMRI (online) at the European Summer School in Sensory Neuroscience – second edition, Uni of Pisa.

08/23: A theoretical lecture on fMRI and a hands-on session on MVPA analysis at the European Summer School in Sensory Neuroscience – first edition, Pisa.

04/19: Lecture about functional magnetic resonance imaging (fMRI) for Leuven master students class: "Methods in Cognitive Neuroscience". Université Catholique de Louvain (UCLouvain), IPSY, Louvain-la-Neuve, Belgium.

03/15: Lecture for Corso di Laurea Magistrale in Psicologia, "Metodi di indagine in neuroscienze cognitive e cliniche". Università degli Studi di Trento, Dipartimento di Psicologia e Scienze Cognitive, Rovereto (TN), Italy.

### Supervisory Work

- Master theses:
  - 4 Finished: Karen Cuculiza Mendoza (CIMeC); Aliénor Jochaus du Plessix (UCLouvain); Ludovica Casotto (CIMeC), Marcos Caetano (University of Köln)
- Ph.D theses (co-supervision):
  - 1 Finished: Alice Van Audenhaege (UCLouvain);
  - 5 Pending: Mengqiao Chai (UGent); Jonas Simoens (UGent); Peter Verbeke (UGent); Haopeng Chen (UGent); Nanne Kukkonen (UGent).

### PhD Jury Member:

09/25 PhD Jury Member for the thesis of Shengjie Xu, UGent (department of cognitive psychology; Pls: S. Braems & T. Verguts)

06/24 PhD Jury Member for the thesis of Freya Acar, UGent (department of data analysis; Pl: Prof B. Moerkerke).

12/23 Jury Member for the thesis of Chiu-Yueh Che, KULeuven (department of cognitive psychology; Pl: Prof. H. Op de Beeck);

#### **PhD Guidance Committee Member:**

- 2024 – ongoing PhD Guidance Committee Member for three PhD students at UGent (department of experimental psychology, PIs: Prof. Talsma, Fias & Bogaerts)
- 2022 – ongoing Organiser of the Internal fMRI Seminar (monthly), Department of Experimental Psychology, UGent, Belgium
- 2022 – ongoing Member of WISHeD (wellbeing, inclusivity, sustainability, health, and diversity) group, Department of Experimental Psychology, UGent, Belgium
- 2022 Member of internal committee to select 1-year post-doc, Department of Experimental Psychology, UGent, Belgium

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#### **SERVICES TO THE SCIENTIFIC COMMUNITY**

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##### **Ad-Hoc Reviewer**

- Acta Psychologica / Cerebral Cortex / Cortex / eLife / Human Brain Mapping / Journal of Neuroscience / Neuroimage / Scientific Reports / Nature Communications

##### **Outreach Activities**

- Researchers' night Unitn Trento 2015
- Organization of Ph.D day 2015 at Cimec (Trento Uni)
- Since July 2022, member of WISHeD (wellbeing, inclusivity, sustainability, health, and diversity) group at UGent, experimental psychology department.

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#### **PUBLICATIONS**

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- First author on 6 out of 14 peer-reviewed publications. H-index:10
1. **Mattioni, S.**, & Longo, M. R. (2014). The effects of verbal cueing on implicit hand maps. *Acta psychologica*, 153, 60-65.
  2. Longo, M. R., **Mattioni, S.**, & Ganea, N. (2015). Perceptual and conceptual distortions of implicit hand maps. *Frontiers in human neuroscience*, 9.
  3. Bottini, R., **Mattioni, S.**, & Collignon, O. (2016). Early blindness alters the spatial organization of verbal working memory. *Cortex*, 83, 271-279.
  4. Van Ackeren, M. J., Barbero, F. M., **Mattioni, S.**, Bottini, R., & Collignon, O. (2018). Neuronal populations in the occipital cortex of the blind synchronize to the temporal dynamics of speech. *eLife*, 7.
  5. Battal, C., Rezk, M., **Mattioni, S.**, Vadlamudi, J., & Collignon, O. (2019). Representation of auditory motion

- directions and sound source locations in the human planum temporale. *Journal of Neuroscience*, 2289-18.
6. **Mattioni S.**, Rezk M., Battal C., Bottini R., Cuculiza Mendoza K.E., Oosterhof N. N., Collignon O. (2020). Categorical representation from sound and sight in the ventral occipito-temporal cortex of sighted and blind. *eLife*, DOI: 10.7554/eLife.50732.
  7. Rezk M., Cattoir S., Battal C., Occelli V., **Mattioni S.**, Collignon O. (2020). Shared representation of visual and auditory motion directions in the human middle-temporal cortex. *Current Biology*, DOI: 10.1016/j.cub.2020.04.039.
  8. Gurtubay-Antolin, A., Battal, C., Maffei, C., Rezk, M., **Mattioni, S.**, Jovicich, J., & Collignon, O. (2021). Direct Structural Connections between Auditory and Visual Motion-Selective Regions in Humans. *Journal of Neuroscience*, 41(11), 2393-2405.
  9. Battal, C., Gurtubay-Antolin, A., Rezk, M., **Mattioni, S.**, Bertonati, G., Occelli, V., Roberto Bottini, Stefano Targher, Chiara Maffei, Jorge Jovicich, & Collignon, O. (2022). Structural and functional network-level reorganization in the coding of auditory motion directions and sound source locations in the absence of vision. *Journal of Neuroscience*. 42(23), 4652-4668.
  10. **Mattioni S.**, Rezk M., Battal C., Vadlamudi J., Collignon O. Impact of blindness onset on the representation of sound categories in occipital and temporal cortices. (2022) *eLife*. DOI : 10.7554/eLife.79370.
  11. **Mattioni, S.**, & Battal, C. (2022). Generalization and Idiosyncrasy: Two Sides of the Same Brain. *The Journal of Neuroscience*, 42(47), 8755.
  12. **Mattioni, S.** (2024). Exploring brain representations through the lens of similarity structures. *Nature Reviews Psychology*, 1-1.
  13. Van Audenhaege, A., **Mattioni, S.**, Cerpelloni, F., Gau, R., Szmalec, A., & Collignon, O. (2025). Phonological representations of auditory and visual speech in the occipito-temporal cortex and beyond. *Journal of Neuroscience*, 45(26).
  14. Chen, H., Verbeke, P., **Mattioni, S.**, Calderon, C. B., & Verguts, T. (2025). Neural and computational evidence for a predictive learning account of the testing effect. *PNAS*.
  15. **Mattioni S.**, Rezk M., Gao X., Nam.J, Liu Z., Gau R., Goffaux V., Costantino A.I., Op de Beeck H., Lewis TR., Maurer D., Collignon O. (2025). The impact of a short period of early visual deprivation on the categorical representation in the occipital cortex. *Nature Communications*
  16. Simoens, J., Braem, S., Verbeke, P., Chen, H., **Mattioni, S.**, Chai, M., Schuck N.W. & Verguts, T. (2025). Two time scales of adaptation in human learning rates. *eLife*

**Preprint**

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#### Articles in preparation (first-author)

- **Mattioni S.**, Rezk M., Battal C., Collignon O. What multivariate pattern analyses can and cannot tell

about abstraction in the brain. (*In prep.*)

- **Mattioni S.** & Hartsuiker R. fMRI multivariate pattern analyses to investigate the lexical representation in the brain across multiple languages. (*Review in prep.*)
- **Mattioni S.**, Van Audenhaege A., Op de Beeck H., Collignon O. Exploring the role of the Visual Word Form Area in processing Sign Language. (*In prep.*)
- **Mattioni S.**, Falagiarda F., Gau R., Rezk M., Battal C., Van Audenhaege A., Collignon O. Supramodal representation of emotion expression across the face and voice networks. (*In prep.*)

#### Articles in preparation (Collaborator)

- Giraudet E., **Mattioni S.**, Lettieri G., Huart C., Collignon O. A nose without scent: knowledge of smell in people with congenital anosmia. (*Submitted*).
- Kukkonen N., **Mattioni S.**, Krebs R. Neural dynamics of effort evaluation versus allocation. (*In prep*)
- Verbeke P., Chen H., Simoens J., **Mattioni S.**, Chai M., Braem S., Verguts T. Exploiting task relations for generalization: Beyond independent latent states. (*In prep.*)
- Zheng, T., **Mattioni, S.**, Collignon, O., Gao, X. Involvement of uni-modal and multi-modal brain regions in familiar person perception through faces and voices. (*Under review in Human Brain Mapping*)
- Talwar, S., **Mattioni, S.**, Giraudet, E., Calce, R.P, Barbero, F., Barilari, M., Collignon, O. Multi-level reorganization in the temporal dynamics of sound processing in early blind people. (*In prep.*)
- A brief period of postnatal visual deprivation permanently alters visual motion processing in early visual regions. Rezk, M., **Mattioni, S.**, Nam, J., Liu, Z.X., Gao, X., Lewis, T., Maurer, D., Collignon, O. (*In prep.*)

#### Articles in the Press

- Stefania M. (2020). Natura Vs Esperienza. Come si adatta la parte visiva del cervello quando manca la vista. Uno studio del CIMeC pubblicato da eLife (Unitrento MAG).

#### Other manuscripts

- Mattioni, S. (2009) Effects of redundancy of the target in the development of facial expressions. Unpublished Bachelor's thesis, University of Bologna (Supervisor: Prof. E. Làdavas).
- Mattioni, S. (2012) *Multisensory integration effects on spatial orientation in children*. Unpublished Master's thesis, University of Bologna (Supervision: Prof. E. Làdavas).
- Mattioni, S. (2018) *How input modality and visual experience affect the representation of categories in the brain*. Unpublished Ph.D dissertation, CIMeC, University of Trento (Supervisor: Prof. O. Collignon).