

Aurélie Calabrèse, PhD

Aix-Marseille University
Laboratory of Cognitive Psychology
CNRS - UMR 7290

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TRANSLATIONAL
RESEARCH VISUAL
AGING NEUROSCIENCE
FMRI PLASTICITY EYE-TRACKING
ADAPTATION NEURO READING
REHABILITATION OPHTHALMOLOGY
VISUAL PSYCHOLINGUISTICS
IMPAIRMENT PSYCHOPHYSICS

EDUCATION & RESEARCH EXPERIENCE

2021-ongoing	Permanent Researcher (CRCN) , CNRS - Aix-Marseille University (France) Laboratoire de Psychologie Cognitive (UMR 7290)
2019-2021	Starting Research Position , Inria Sophia Antipolis - Méditer., Côte d'Azur Univ. (France) Biovision Project Team
2017-2019	Postdoctoral Research Associate , Aix-Marseille University (France) Laboratoire de Psychologie Cognitive (CNRS - UMR 7290) Advisor: Eric Castet
2011-2016	Postdoctoral Research Associate , University of Minnesota, Psychology (USA) Minnesota Laboratory for Low-Vision Research Advisor: Gordon E. Legge
2011	Ph.D. degree in Cognitive Neurosciences , University of the Mediterranean (France) Institut de Neurosciences Cognitives de la Méditerranée (CNRS - UMR 6193) Advisor: Eric Castet
2007	Msc degree in Cognitive Neurosciences , University of the Mediterranean (France)
2005	Bsc degree in Biology , University of the Mediterranean (France)

PUBLICATIONS (Peer-Reviewed Articles)

1. Bonlarron, A., **Calabrèse, A.**, Kornprobst, P., Régis, J.-C. (in press) Constraints First: A New MDD-based Model to Generate Sentences Under Constraints. *Proceedings of the Thirty-First International Joint Conference on Artificial Intelligence (IJCAI 2023)*
2. **Calabrèse, A.**, Fournet, V., Dours, S., Matonti, F., Castet, E. Kornprobst, P. (in press) A new vessel-based method to estimate automatically the position of the non-functional fovea on altered retinography from maculopathies. *Translational Vision and Science Technology*
3. Baskaran, K., **Calabrèse, A.**, Hernandez-Moreno, L., Santos, D., Macedo, A.F. (in press) Reading performance in Portuguese children from second to tenth grade with the MNREAD reading acuity test. *Journal of Optometry*. <https://doi.org/10.1016/j.optom.2023.05.003>
4. Bonlarron, A., **Calabrèse, A.**, Kornprobst, P., Régis, J.-C. (2022) Génération de texte sous contraintes pour mesurer des performances de lecture : Une nouvelle approche basée sur les diagrammes de décisions multivalués. *Journées Francophones de Programmation par Contraintes, JFPC*, Jun 2022, Saint-Étienne, France. <https://ci.mines-stetienne.fr/pfia2022/conferences/jfpc/actes.pdf>

5. Wu, H.-Y., **Calabrèse, A.**, Kornprobst, P. (2022) An Open Virtual Reality Toolbox for Accessible News Reading. *ERCIM News No 130*. <https://ercim-news.ercim.eu/images/stories/EN130/EN130-web.pdf>
6. Xiong, Y-Z., **Calabrèse, A.**, Lei, Q., Legge, G.E. (2021) Simulating Visibility and Reading Performance in Low Vision. *Front. Neurosci.* 15:671121. <https://doi.org/10.3389/fnins.2021.671121>
7. Wu, H.-Y., **Calabrèse, A.**, Kornprobst, P. (2021) Towards Accessible News Reading Design in Virtual Reality for Low Vision. *Multimed Tools Appl*, **80**, 27259–27278. <https://doi.org/10.1007/s11042-021-10899-9>
8. Sauvan, L., Stolowy, N., Aguilar, C., François, T., Gala, N., Matonti, F., Castet, E., **Calabrèse, A.** (2020) The Inhibitory Effect of Word Neighborhood Size When Reading With Central Field Loss is Modulated by Word Predictability and Reading Proficiency. *Scientific Reports* **10**, 21792. <https://doi.org/10.1038/s41598-020-78420-0>
9. Ryan, E.H., Lam, L., Pulido, C.P., Bennett, S.R., **Calabrèse, A.** (2020) Reading Speed as an Objective Measure of Improvement Following Vitrectomy for Symptomatic Vitreous Opacities. *Ophthalmic Surgery, Lasers and Imaging Retina*, 51(8): 456-466. <https://doi.org/10.3928/23258160-20200804-06>
10. Sauvan, L., Stolowy, N., Aguilar, C., François, T., Gala, N., Matonti, F., Castet, E., **Calabrèse, A.** (2020) Text Simplification to Help Individuals With Low Vision to Read More Fluently. *Workshop Tools and Resources to Empower People with Reading Difficulties (READI) at International conference on Language Resources and Evaluation (LREC 2020)*, oral presentation, pp. 27-32. Marseille, France. <https://www.aclweb.org/anthology/2020.readi-1.5/>
11. Baskaran, K., Macedo, A.F., He, Y., Moreno, L., Silva, M., Mansfield, J.S., **Calabrèse, A.** (2019) Scoring Reading Parameters: an Inter-Rater Reliability Study Using the MNREAD Chart. *PLoS ONE*, 14(6): e0216775. <https://doi.org/10.1371/journal.pone.0216775>
12. Stolowy, N.*, **Calabrèse, A.***, Sauvan, L., Aguilar, C., François, T., Gala, N., Matonti, F., Castet, E. (2019) The Influence of Word Frequency on Word Reading Speed when Individuals with Macular Diseases Read Text. *Vision Research*, 155, 1-10 <https://doi.org/10.1016/j.visres.2018.12.002>
* joint first authors
13. Xiong, Y-Z., **Calabrèse, A.**, Cheong, A., Legge, G.E. (2018). Reading Acuity as a Predictor of Low-Vision Reading Performance. *Investigative Ophthalmology & Visual Science*, 59(12), 4798-4803. <http://dx.doi.org/10.1167/iovs.18-24716>
14. **Calabrèse, A.**, Aguilar, C., Faure, G., Matonti, F., Hoffart, L., Castet, E. (2018). A Vision Enhancement System to improve Face Recognition with Central Vision Loss. *Optometry and Vision Science*, 95(9), 738–746. <http://doi.org/10.1097/OPX.0000000000001263>
15. Gupta, A., Mesik, J., Engel, S.A., Smith, R., Schatza, M., **Calabrèse, A.**, van Kuijk, F.J., Erdman, A.G., Legge, G.E. (2018). Beneficial Effects of Spatial Remapping for Reading With Simulated Central Field Loss. *Investigative Ophthalmology & Visual Science*, 59(2), 1105–1112. <http://doi.org/10.1167/iovs.16-21404>
16. **Calabrèse, A.**, To, L., He, Y., Berkholtz, E., Rafian, P., & Legge, G. E. (2018). Comparing Performance on the MNREAD iPad Application with the MNREAD Acuity Chart. *Journal of Vision*, 18(1), 8. <http://doi.org/10.1167/18.1.8>
17. **Calabrèse, A.**, Liu, T., & Legge, G. E. (2017). Does Vertical Reading Help People with Macular Degeneration: An Exploratory Study. *PLoS ONE*, 12(1), e0170743. <http://doi.org/10.1371/journal.pone.0170743>
18. **Calabrèse, A.**, Cheong, A., Cheung, S-H., He, Y., Kwon, M., Mansfield, J.S., Subramanian, A., Yu D., Legge, G.E. (2016). Baseline MNREAD Measures for Normally Sighted Subjects From Childhood to Old Age. *Investigative Ophthalmology & Visual Science*, 57(8), 3836–3843. <http://doi.org/10.1167/iovs.16-19580>

19. **Calabrèse, A.**, Bernard, J.-B., Faure, G., Hoffart, L., Castet, E. (2016). Clustering of Eye Fixations: A New Oculomotor Determinant of Reading Speed in Maculopathy. *Investigative Ophthalmology & Visual Science*, 57(7), 3192-3202. <http://doi.org/10.1167/iovs.16-19318>
20. **Calabrèse, A.**, Owsley, C., McGwin, G., & Legge, G. E. (2016). Development of a Reading Accessibility Index Using the MNREAD Acuity Chart. *JAMA Ophthalmology*, 134(4), 398–405. <http://doi.org/10.1001/jamaophthalmol.2015.6097>
21. Bernard, J.-B., **Calabrèse, A.**, Castet, E. (2014). Role of Syllable Segmentation Processes in Peripheral Word Recognition. *Vision Research*, 105, 226-232. <http://doi.org/10.1016/j.visres.2014.10.018>
22. **Calabrèse, A.**, Bernard, J.-B., Faure, G., Hoffart, L., Castet, E. (2014). Eye Movements and Reading Speed in Macular Disease: The Shrinking Perceptual Span Hypothesis Requires and Is Supported by a Mediation Analysis. *Investigative Ophthalmology & Visual Science*, 55(6), 3638-3645. <http://doi.org/10.1167/iovs.13-13408>
23. **Calabrèse, A.**, Bernard J.-B., Hoffart L., Faure G., Barouch F., Conrath J., Castet E. (2011). Wet versus Dry Age-Related Macular Degeneration in Patients with Central Field Loss: Different Effects on Maximum Reading Speed. *Investigative Ophthalmology & Visual Science*, 52(5), 2417-2424. <http://doi.org/10.1167/iovs.09-5056>
24. **Calabrèse, A.**, Bernard, J.-B., Hoffart, L., Faure, G., Barouch, F., Conrath, J., Castet, E. (2010). Small Effect of Interline Spacing on Maximal Reading Speed in Low-Vision Patients with Central Field Loss Irrespective of Scotoma Size. *Investigative Ophthalmology & Visual Science*, 51(2), 1247-1254. <http://doi.org/10.1167/iovs.09-3682>
25. Scherlen, A.-C., Bernard, J.-B., **Calabrèse, A.**, Castet, E. (2008) Page Mode Reading with Simulated Scotomas: Oculo-motor Patterns. *Vision Research*, 48(18), 1870-1878. <http://doi.org/10.1016/j.visres.2008.06.005>

COORDINATION OF RESEARCH PROJECTS & GRANTS

Assistive text setting to increase readability

Institut Carnot Cognition

Role: Principal investigator

Total cost: 12,000€

2022/01 - 2022/12

InREAD: Development of a platform to study reading behavior in normal and pathological vision

Action de Développement Technologique (ADT) - INRIA

Role: Principal investigator

Total duration: 12 months

2021 - 2022

Improving reading performance of AMD patients through optimized oculo-motor patterns

Fondation de France, Berthe Fouassier grant (neuro-ophthalmology) - *Renewal*

Role: Principal investigator

Total Costs: 71,100 €

2018/04 - 2019/06

Improving reading performance of AMD patients through optimized oculo-motor patterns

Fondation de France, Berthe Fouassier grant (neuro-ophthalmology)

Role: Principal investigator

Total Costs: 67,200 €

2017/04 - 2018/02

Psychophysics of Reading - Normal and Low Vision

NIH grant

Role: Consultant

Total Costs: \$10,000

2016/08 - 2017/02

Validation of the E-MNREAD: MNREAD Reading Acuity Test implemented on an iPad3 UMN Psychology Department grant Role: Principal investigator Total Costs: \$1,000	2015/01
Travel grant for the 9th International Low Vision Conference - Vision 2008 - Montreal, Canada International Society for Low Vision Research and Rehabilitation (ISLRR) Total Costs: \$1,250	2008/07
Désorganisation fonctionnelle des systèmes oculomoteur et visuo-attentionnel chez les patients basse vision French Ministry of Research & Technology PhD fellowship Total Costs: 67,900 €	2007/11 - 2010/10

CONFERENCE ABSTRACTS (Posters & Oral Presentations)

1. Bonlarron, A., **Calabrèse, A.**, Kornprobst, P., Régis, J.-C. Constraints First: A New MDD-based Model to Generate Sentences Under Constraints. *Oral presentation to be given at IJCAI 2023, Macao, China.*
2. Lapeyre E., Cabasson L., Aguilar C., Vitu F., Gala N., **Calabrese A.** Effect of word predictability on reading performance in normally sighted readers with a simulated scotoma. *Poster presented at ARVO 2023, New Orleans, USA.*
3. **Calabrese A.**, Aguilar C., Castet, E. Reading with simulated central field loss: rapid adaptation of fixation distribution and its influence on reading speed. *Oral presentation given at ARVO 2023, New Orleans, USA.*
4. Bonlarron, A., **Calabrèse, A.**, Kornprobst, P., Régis, J.-C. Génération de texte sous contraintes pour mesurer des performances de lecture : Une nouvelle approche basée sur les diagrammes de décisions multivalués. *Oral presentation given at JFPC 2002 (Journées Francophone de Programmation par Contraintes), Saint-Étienne, France.*
5. **Calabrèse, A.** Text simplification as a reading aid for individuals with low vision. *Oral presentation given during the READI workshop at LREC 2022 (International conference on Language Resources and Evaluation), Marseille, France.*
6. **Calabrèse, A.**, Fournet, V., Dours, S., Matonti, F., Castet, E., Kornprobst P. A new vessel-based method to estimate automatically the position of the non-functional fovea on altered retinography from maculopathies. *Poster presented at ARVO 2022, Denver, USA.*
7. **Calabrèse, A.** Automated text simplification as a reading aid for low-vision individuals. *Invited speaker at the 20-21 Vision Health Research Network Virtual meetings, Montréal, Canada.*
8. **Calabrèse, A.**, Aguilar, C., Matonti, F., Conrath, J., Devin, F., Castet, E. A Vision Enhancement System to Improve Face Recognition with Central Field Loss. *Poster presented at MaculArt Meeting 2019, Paris, France.*
9. **Calabrèse, A.**, Sauvan, L., Aguilar, C., Castet E. Word neighborhood size is not a limiting factor of reading speed with central field loss. *Poster presented at ARVO 2019, Vancouver, Canada.*
10. Castet, E., **Calabrèse, A.**, Aguilar, C., Pocheau, C. Distribution of Fixations During Natural Reading with Central Field Loss. *Oral presentation given during the ECVF meeting 2018, Trieste, Italy.*
11. Stolowy, N., **Calabrèse, A.**, Sauvan, L., Aguilar, C., Francois, T., Gala, N., Matonti, F., Denis, D., Castet, E. La simplification de texte pour les patients malvoyants atteints de maculopathie bilatérale: l'effet de la fréquence des mots sur la vitesse de lecture. *Oral presentation given during the SFO meeting 2018, Paris, France.*
12. **Calabrèse, A.**, Aguilar, C., Castet, E. A Vision Enhancement System to Improve Face Recognition with Central Field Loss. *Oral presentation given during the GDR Vision meeting 2017, Lille, France.*

13. **Calabrèse, A.**, Castet, E. Apprehending reading deficits of AMD individuals through an oculomotor pattern investigation. *Oral presentation at Vision 2017, The Hague, The Netherlands.*
14. Crossland, M. D., **Calabrèse, A.**, To, L., Legge, G.E. Age effects on reading parameters in children and adults with vision impairment assessed with the MNREAD iPad app. *Oral presentation at Vision 2017, The Hague, The Netherlands.*
15. Baskaran, K., **Calabrèse, A.**, Castet, E., Moreno, L., Silva, M., Macedo, A. F. Scoring reading parameters: an inter-rater reliability study using the MNREAD test. *Oral presentation at Vision 2017, The Hague, The Netherlands.*
16. **Calabrèse, A.** Preferred retinal locus and reading. *Oral presentation at ARVO 2017, Baltimore, USA.*
17. **Calabrèse, A.**, Aguilar, C., Castet, E. A Vision Enhancement System to help AMD patients with Face Recognition. *Invest. Ophthalmol. Vis. Sci. 2017; 58(8):4711.*
18. Xiong, Y., Boucher, J., **Calabrèse, A.**, Lei, Q., Legge, G.E. Simulating the Effect of Acuity Reduction on Reading Performance. *Invest. Ophthalmol. Vis. Sci. 2017; 58(8):3276.*
19. **Calabrèse, A.**, Legge, G.E. Baseline MNREAD measures for normally sighted subjects across age. *Invest. Ophthalmol. Vis. Sci. 2016; 57(12):1949.*
20. Gupta, A., Engel, S., Van Kuijk, E. J., **Calabrèse, A.**, Sanders, J., Erdman, A., Legge, G.E. Evaluating Reading Performance with a Head Mounted Aid for Central Visual Field Loss. *Invest. Ophthalmol. Vis. Sci. 2016;57(12):4430.*
21. **Calabrèse, A.**, Cheung, S.H., Yang, Y., Qin, Y., McGwin, G., Owsley, C., Legge, G.E. Development of a Reading Accessibility Index using the MNREAD acuity chart. *Invest. Ophthalmol. Vis. Sci. June 2015, Vol.56, E-Abstract 4788.*
22. **Calabrèse, A.**, Gamam S., Mansfield J.S., Legge G.E. Implementing the MNREAD Reading Acuity Test on an iPad3. *Invest Ophthalmol. Vis. Sci. 2014;55: E-Abstract 5601.*
23. **Calabrèse, A.**, Legge G.E., Bigelow C.A. Implementing the MNREAD Reading Acuity Test on an iPad3. *Visibility, Envision University, 2013, Vol. 7, Issue 4 - Abstract*
24. **Calabrèse, A.**, Liu T., He S., Legge G.E. Reading Speed in Peripheral Vision Improves with Practice: Investigation of the Involved Cortical Sites. *J. Vis. July 24, 2013 13(9):918-Abstract*
25. **Calabrèse, A.**, Liu T., He Y., He S., Legge G.E. Improving Reading Speed in Peripheral Vision with Perceptual Learning: A Behavioral and fMRI Investigation. *J. Vis. August 13, 2012 12(9):704-Abstract.*
26. **Calabrèse, A.**, Aguilar C., Hoffart L., Faure G., Conrath J., Castet E. Oculo-motor patterns induced by reading in peripheral vision. *J. Vis. September 23, 2011 11(11): 514 - Abstract*
27. **Calabrèse, A.**, Bernard J.B., Hoffart L., Faure G., Barouch F., Conrath J., Castet E. Wet vs. dry age-related macular degeneration in patients with central field loss : different effects on Maximum Reading Speed. *Invest. Ophthalmol. Vis. Sci. 2010 51: E-Abstract 3063.*
28. **Calabrèse, A.**, Bernard J.B., Faure G., Barouch F., Hoffart L., Conrath J., Castet E. Use of different PRL strategies during reading with AMD patients. *Invest. Ophthalmol. Vis. Sci. 2009 50: E-Abstract 724.*
29. **Calabrèse, A.**, Bernard J.B., Faure G., Barouch F., Hoffart L., Conrath J., Castet E. Effect of vertical interline spacing on reading speed in low vision patients with central scotomas. *Abstract in the Proceedings of Vision 2008 - The 9th International Conference on Low Vision; Montreal, Canada.*

PATENTS

1. MNREAD App for iOS (2015)
Legge G.E., **Calabrèse A.**, To L., Mansfield J.S., Bigelow C. University of Minnesota
2. T-SOLAIRE: a reading test software for low vision patients (2008)
Castet E., Bernard J.-B., **Calabrèse A.** French Software Agency (Protection DI 01951-01)

SOFTWARE

1. mnreadR, an R package to analyze MNREAD data (2021) – *Version 2.1.6*
Calabrèse A., Mansfield J.S., Legge G.E. <https://CRAN.R-project.org/package=mnreadR>
2. MNREAD iPad App ©2017 – *Version 1.17*
Legge G.E., **Calabrèse A.**, To L., Mansfield J.S., Bigelow C.
Apple App Store - <https://itunes.apple.com/us/app/mnread/id1196638274?ls=1&mt=8>

MANUALS

1. mnreadR package - reference manual (2021)
Calabrèse A.
2. MNREAD App - user guide (2022)
Calabrèse A.

PROFESSIONAL ACTIVITIES & AFFILIATIONS

Professional roles	<ul style="list-style-type: none">- Scientific Program Committee member for the Vision2025 conference (2025)- Scientific Program Committee member for the <i>Low-Vision Cross-sectional Group of the ARVO annual meeting</i> (2021-2024)- Scientific Program Committee and Organizing Committee member of the <i>READI workshop (Tools and Resources to Empower People with Reading Difficulties)</i> at LREC 2022 conference
Membership	<ul style="list-style-type: none">- Low Vision Research Group (LVRG)- Association for Research in Vision and Ophthalmology (ARVO)- Vision Sciences Society (VSS)
Peer reviewing (IF)	<ul style="list-style-type: none">- Investigative Ophthalmology and Vision Science (4.799)- Scientific Reports (4.379)- Acta Ophthalmologica (3.988)- Translational Vision Science and Technology (3.283)- PLoS ONE (3.24)- Graefe's Archive for Clinical and Experimental Ophthalmology (3.117)- Ophthalmic and Physiological Optics (3.117)- Reading and Writing (2.87)- Journal of Vision (2.24)- Clinical Ophthalmology (2.14)- Optometry and Vision Science (1.973)- Acta Psychologica (1.734)

TEACHING

Teaching

- Invited lecturer – Career in research** (Spring 2022) – 2h
Psychology L3- Université Aix-Marseille (Aix-en-Provence, France)
- Invited lecturer – Neurophysiologie of aging of the visual system** (Fall 2021) – 2h
International Master on aging - Université Côte d'Azur (Nice, France)
- Invited lecturer – Reading and low vision** (Spring 2017) – 8h
Institute of Vision Sciences - ISV Formation (Saint-Etienne, France)
- Invited lecturer – Retina and visual pathways** (Spring 2017) – 8h
Institute of Vision Sciences - ISV Formation (Saint-Etienne, France)
- Instructor - Psy 4036: Perceptual Issues in Visual Impairment** (Fall 2012) – 64h
Psychology - University of Minnesota (Minneapolis, USA)
Topics include:
- Prevalence of low-vision and blindness
 - Vision and aging
 - Brain adaptation to vision loss
 - Reading and low vision
 - Adaptive technology for reading, Braille reading
 - Adaptive technology for computer access
 - Navigational technology (ranging from canes to GPS)

MENTORING

Mentoring

Ph.D. students

- Eole Lapeyre** (ongoing)
Cognition, Language, Education - Aix-Marseille University (2022-2025)
Project: Psycholinguistic study of impaired reading processes in patients with central field loss.
Role: Advisor (100%)
- Alexandre Bonlarron** (ongoing)
Information and communication technologies - Université Côte d'Azur (2021-2024)
Project: Pushing the limits of reading performance screening with Artificial Intelligence: towards large-scale evaluation protocols for the visually impaired.
Role: Co-advisor (35%)
- Nilsu Atilgan** (defended)
Psychology - University of Minnesota (2015-2016)
Project: Impact of line length on reading performance for normal vision and simulated low vision.
Role: Co-advisor (25%)
- Anshul Gupta** (defended)
Mechanical engineering - University of Minnesota (2014-2016)
Project: Evaluating reading performance with a head mounted aid for central visual field loss.
Role: Co-advisor (25%)

Livia Cabasson (defended)

M2 Sciences cognitives - Aix-Marseille University (2021-2022)

Project: Effet de la prédictibilité des mots en contexte sur les performances de lecture chez des sujets sains avec simulation de scotome maculaire.

Role: Co-advisor (90%)

Eole Lapeyre (defended)

M2 Sciences cognitives - Aix-Marseille University (2021-2022)

Project: The effect of lighting on reading performance in adults with dyslexia.

Role: Co-advisor (80%)

Julien Kaplan - Matéo Borlat - Nicolas Lanoux (defended)

Practical training in Computer science – Polytech Nice-Sophia (2021-2022)

Project: Automation of pathological fundus retinal image analysis.

Role: Co-advisor (50%)

Vincent Fournet (defended)

M1 Computer science – Ecole Polytechnique Paris (2020-2021)

Project: Development of a new automated vessel-based method to estimate the anatomical position of the fovea in pathological fundus retinal images.

Role: Co-advisor (50%)

Alexandre Bonlarron (defended)

M2 Computer science - Université Côte d'Azur (2020-2021)

Project: Automatic production of constrained text from a corpus.

Role: Co-advisor (35%)

Severine Dours (defended)

M2 Santé, Sciences et Techniques de Réadaptation - Université de Lyon (2020-2021)

Project: Réalité virtuelle et déficience visuelle: Tâche de visée avec la tête chez des sujets atteints de déficit visuel central et des sujets contrôles.

Role: Co-advisor (80%)

Sacha Wanono - Erwan Gaymard - Hugo Lavezac (defended)

Practical training in Computer science – Polytech Nice-Sophia (2020-2021)

Project: Automation of fundus retinal image analysis.

Role: Co-advisor (50%)

Arthur Doglio (defended)

M2 Computer science - Université Côte d'Azur (2019-2020)

Project: Developing an automated MNREAD sentence generator.

Role: Co-advisor (35%)

Severine Dours (defended)

M1 Santé, Sciences et Techniques de Réadaptation - Université de Lyon (2019-2020)

Project: Réalité virtuelle et déficience visuelle: Approche expérimentale d'une action de visée avec la tête chez le sujet atteint de dégénérescence maculaire liée à l'âge.

Role: Co-advisor (70%)

Marie Bossard (defended)

M2 Neurosciences - Aix-Marseille University (2018-2019)

Project: Stratégie visuo-attentionnelle chez des sujets sains avec scotome central simulé et effet du perceptual learning sur la rétention des performances.

Role: Co-advisor (90%)

Celine Pocheau (defended)

M2 Neurosciences - Aix-Marseille University (2017-2018)

Project: Etude de l'influence de la position du « Preferred Retinal Locus » (PRL) sur les performances de lecture chez des sujets sains avec simulation de scotome maculaire.

Role: Co-advisor (90%)

Mentoring
Master students

Marie Beylerian (defended)

M2 Neuroscience - Aix-Marseille University (2017-2018)

Project: Évaluation de l'effet de la fréquence et du voisinage orthographique sur la vitesse de lecture de patients déficients visuels atteints de scotome central bilatéral.

Role: Co-advisor (50%)

Marie Bossard (defended)

M1 Neuroscience - Aix-Marseille University (2017-2018)

Project: Simulation de scotome maculaire chez des sujets sains et influence de la position de la preferred retinal locus sur les performances de lecture.

Role: Co-advisor (50%)

Lauren Sauvan (defended)

M2 Neuroscience - Aix-Marseille University (2016-2017)

Project: Le voisinage orthographique est-il une composante importante de la complexité lexicale dans le but de la simplification de texte pour les patients présentant une perte de vision centrale?

Role: Co-advisor (75%)

Natacha Stolowy (defended)

M2 Neuroscience - Aix-Marseille University (2016-2017)

Project: Effets de la fréquence sur la durée de traitement des mots dans une tâche de lecture naturelle chez les patients présentant une maculopathie bilatérale.

Role: Co-advisor (75%)

Mélanie Ordines (defended)

M2 Science, Technology & Clinical Res. - Aix-Marseille University (2010)

Project: *Comparaison de deux tests d'évaluation des performances de lecture chez les patients basse vision.*

Role: Co-advisor (50%)

Mentoring
Undergraduate students

Elizabeth Berkhotz

Psychology - University of Minnesota (2015-2016)

Project: *MNREAD acuity chart: test-retest reliability of the printed chart and iPad versions.*

Role: Advisor (100%)

Safa Gamam

Psychology - University of Minnesota (2013-2014)

Project: *Validating an iPad 3 implementation of the MNREAD reading acuity test.*

Role: Advisor (100%)

Rachel Wallace

Psychology - University of Minnesota (2013)

Project: *Designing an iPad version of the MNREAD reading acuity chart.*

Role: Advisor (100%)

CONSULTING

2017-2019

Research consultant, jCyte - *Treating retinitis pigmentosa* (USA).
<http://jcyte.com/>

2016-2017

Research consultant, University of Minnesota, Psychology (USA).
Minnesota Laboratory for Low-Vision Research.

COMPETENCES

Technical skills	fMRI - AFNI, BrainVoyagerQX Eye-Tracking - Eyelink II, Eyelink 1000, Data Viewer Ophthalmic devices - Microperimeter-MP1, Microperimeter-MP3, IOL Master Statistics & Programming - R, Matlab, PsychToolbox
Language	English - Fluent French - Mother language Italian - Elementary notions

CAREER BREAKS

2018	Maternity leave
2014	Maternity leave

Updated June 1st 2023