ALEXIA ROUX-SIBILON

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WORK EXPERIENCE

Postdoctoral Researcher — *September 2020 - Septembre 2023*
 Université Catholique de Louvain, Psychological Research Institute / Institute of Neuroscience *Louvain-la-Neuve, Belgium*

Research and Teaching Fellow (A.T.E.R.) — *September 2019 - August 2020*
 University Grenoble-Alpes, LPNC CNRS 5105, *Grenoble, France*

Contractual PhD Candidate — *October 2016 - August 2019*
 University Grenoble-Alpes, LPNC CNRS 5105, *Grenoble, France*

Teaching Assistant — *October 2016 - June 2019*
 University Grenoble-Alpes, LPNC CNRS 5105, *Grenoble, France*

Research Assistant — *July 2016 - August 2016*
 University Grenoble-Alpes, LPNC CNRS 5105, *Grenoble, France*

EDUCATION

PhD in Psychology and Cognitive Neuroscience — 2020
 University Grenoble-Alpes, LPNC CNRS 5105, *Grenoble, France*
Dissertation: *Visual recognition: Study of the influence of peripheral vision within the coarse-to-fine theoretical framework*
Supervisor: Dr. Carole Peyrin
Funding: AGIR POLE CBS (UGA)

MSc in Cognitive Science - Natural and artificial cognition — 2016
 Grenoble Institute of Technology, *Grenoble, France*
Supervisors: Dr. Carole Peyrin and Dr. Solène Kalénine

Master's degree in Experimental Psychology — 2015
 Pierre Mendès-France University, *Grenoble, France*
Supervisor: Dr. Carole Peyrin

BA in Psychology — 2013
 Pierre Mendès-France University, *Grenoble, France*

GRANTS AND AWARDS

Funded grant proposals ✔

F.S.R. Post-Doc grant from UCLouvain Research Council 2 years fellowship to carry out research at UCLouvain (*Louvain-La-Neuve, Belgium*) in Prof. Valerie Goffaux's laboratory
Project: *Mapping new territories: Impact of orientation biases on the interaction between foveal and peripheral vision*

Idex Graduate School grant from ComUE Grenoble-Alpes — 2018 3 months travel grant in UCLouvain (*Louvain-La-Neuve, Belgium*)

Awards

2021 Thesis Price from University Grenoble-Alps 👆

PUBLICATIONS

Journal papers

Peyrin, C., **Roux-Sibilon, A.**, Trouilloud, A., Khazaz, S., Joly, M., Pichat, C., Boucart, M., Krainik, A., Kauffmann, L. Semantic and physical properties of peripheral vision are used for scene categorization in central vision. *Journal of Cognitive Neuroscience* (accepted)

Trouilloud, A., Kauffmann, L., **Roux-Sibilon, A.**, Rossel, P., Boucart, M., Mermillod, M., Peyrin, C. (2020). Rapid scene categorization : From coarse peripheral vision to fine central vision. *Vision Research*, 170, 60-72.

Roux-Sibilon, A., Trouilloud, A., Kauffmann, L., Guyader, N., Mermillod, M., Peyrin, C. (2019). Influence of peripheral vision on object categorization in central vision. *Journal of Vision*, 19(14), 7-7.

Roux-Sibilon, A., Rutge, F., Aptel, F., Attye, A., Guyader, N., Boucart, M., Chiquet, C., Peyrin, C. (2018). Scene and human face recognition in the central vision of patients with glaucoma. *PloS One*, 13(2).

Roux-Sibilon, A., Kalénine, S., Pichat, C., Peyrin, C. (2018). Dorsal and ventral stream contribution to the paired-object affordance effect. *Neuropsychologia*, 112, 125-134.

Hoyau, E., **Roux-Sibilon, A.**, Boudiaf, N., Pichat, C., Cousin, E., Krainik, A., Jaillard, A., Peyrin, C., Baciu, M. (2018). Aging modulates fronto-temporal cortical interactions during lexical production. A dynamic causal modeling study. *Brain and Language*, 184, 11-19.

Kauffmann, L., **Roux-Sibilon, A.**, Beffara, B., Mermillod, M., Guyader, N., Peyrin, C. (2017). How does information from low and high spatial frequencies interact during scene categorization ?. *Visual Cognition*, 25(9-10), 853-867.

Peyrin, C., Ramanoël, S., **Roux-Sibilon, A.**, Chokron, S., Hera, R. (2017). Scene perception in age-related macular degeneration : Effect of spatial frequencies and contrast in residual vision. *Vision Research*, 130, 36-47.

Conference papers

Roux-Sibilon, A., Peyrin, C., Greenwood, J. A., Goffaux, V. (2021). Radial biases influence face identification in the periphery. *Journal of Vision*, 21(9), 2594-2594.

ORAL COMMUNICATIONS

Roux-Sibilon, A., Peyrin, C., Greenwood, J. A., Goffaux, V. (2021). *Radial biases influence face identification in the periphery.* Belgian Association for Psychological Science online conference.

Peyrin, C. & **Roux-Sibilon, A.** (2018). *Troubles de la reconnaissance visuelle de scènes induits par une atteinte rétinienne et désorganisation corticale associée.* Journée scientifique du LPNC "Neuroplasticité et rééducation cognitive", Grenoble, France.

Roux-Sibilon, A. (2017). *Scene and face categorization in the central vision of patients with glaucoma.* 'PSM Fest' Vision workshop, Laboratoire de Psychologie de la Perception, Université Paris Descartes, France.

POSTER COMMUNICATIONS

Roux-Sibilon, A., Peyrin, C., Greenwood, J. A., Goffaux, V. (2021). Radial biases influence face identification in the periphery. *NeuroCog conference.*, Louvain-la-Neuve, Belgium.

Roux-Sibilon, A., Peyrin, C., Greenwood, J. A., Goffaux, V. (2021). Radial biases influence face identification in the periphery. *Virtual Vision Sciences Society Conference.*, USA.

Trouilloud, A., Kauffmann, L., **Roux-Sibilon, A.**, Rossel, P., Boucart, M., Mermillod, M., & Peyrin, C. (2018). Rapid scene categorization : From coarse peripheral vision to fine central vision. *European Conference on Visual Perception.* Leuven, Belgium

Trouilloud, A., **Roux-Sibilon, A.**, Rutgé, F., Kauffmann, L., Attyé, A., Chiquet, C., Aptel, F., & Peyrin, C. (2018). Peripheral vision loss affects the processing of spatial frequencies in the central vision of people with glaucoma. *European Conference on Visual Perception*, Trieste, Italy.

Roux-Sibilon, A., Trouilloud, A., Kauffmann, L., Mermillod, M., & Peyrin, C. (2018). Role of peripheral vision on proactive processing leading to object recognition. *1st international Workshop on Predictive Processing*, San Sebastian, Spain.

Roux-Sibilon, A., Rutgé, F., Aptel, F., Attye, A., Guyader, N., Boucart, M., Chiquet, C., & Peyrin, C. (2017). Is scene and face perception preserved in the central visual field of people with glaucoma?. *European Conference on Visual Perception*, Berlin, Germany

Roux-Sibilon, A., Kalenine, S., Pichat, C., & Peyrin, C. (2016). The neural basis of the paired-object affordance effect. *European Conference on Visual Perception*, Barcelona, Spain

Kauffmann, L., **Roux-Sibilon, A.**, Miler, D., Beffara, B., Mermillod, M., & Peyrin, C. (2016). How does information from low and high spatial frequencies interact during scene categorization?. *European Conference on Visual Perception*, Barcelona, Spain

TEACHING

Methods and statistics

Advanced Methods in Cognitive Psychology (tutorials 6h | Psychology 4rd Year)
Experimental design and programming, Introduction to programming psychological experiments in E-Prime

Introduction to Inferential Statistics (tutorials 32h | Psychology 2nd Year)
Introduction to t-test and inferential statistics

Data Analysis (tutorials 32h | Psychology 1st Year)
Descriptive statistics (scales, graphs, mean, median, standard deviation, bivariate analyses)

Methods in Social Science (tutorials 12h | Psychology 1st Year)
Research methods, study designs, types of measurement

Academic Work Methods (tutorials 68h | Psychology 1st Year)
Literature search, bibliography, reading reports, reasoning and writing

Psychology

Psychometrics (tutorials 28h | Psychology 2nd Year)
Psychometric properties, Intelligence tests (WISC-IV)

Cognitive Psychology - Visual recognition (lecture 4h | Psychology 2nd Year)
Characteristics and models of visual recognition

Cognitive Psychology - Perception, action, categorisation (tutorials 24h | Psychology 3rd Year)
Developmental and embodied approach of categorization processes, Infants and children testing methods

Introduction to Cognitive Psychology (tutorials 26h | Psychology 1st Year)
Experimental approach in behavioral research (hypotheses and predictions, dependant and independant variables, main effects and interactions)

Neurophysiology

Neurophysiology of Sensory Systems (tutorials 32h | Psychology 3rd Year)
Neurophysiology of audition, olfaction and gustation

Neurophysiology of Sensory Systems (practical works 92h | Psychology 3rd Year)
Practical works on vision, audition, gustation and electroencephalography

STUDENT SUPERVISION

Student(s)	Degree	Academic year	Project	Co-supervisor(s)
P. Rossel	Msc Research in Psychology	2019-2020	*Rapid scene categorization from coarse peripheral vision to fine central vision*	L. Kauffmann, C. Peyrin, A. Trouilloud
P. Rossel	Msc Research in Psychology	2018-2019	*Role of peripheral vision in the coarse-to-fine analysis of visual scenes*	L. Kauffmann, C. Peyrin, A. Trouilloud
L. Simoncelli, S. Sudre, M. Sibillini	BA in Psychology	2018-2019	*Impact of the radial-tangential anisotropy in peripheral vision on representational momentum*	
A. Trouilloud	Msc Neuropsychology and Clinical Neuroscience	2017-2018	*Spatial frequency processing in people with glaucoma*	C. Peyrin
M. Favre, C. Curto, B. Tam	BA in Psychology	2017-2018	*Influence of contextual information in peripheral vision on object categorization*	C. Peyrin
V. Louraço, P. Rossel	BA in Psychology	2017-2018	*Affordance and categorization of 'uncomfortable' manipulable artifacts*	L. Molto

S. Khazaz, M. Joly, A. Trouilloud	Msc Research in Psychology	2016-2017	*Integration of information extracted in central and peripheral vision*	C. Peyrin

ACADEMIC SERVICES

Elected representative of PhD students — 2017-2020
📍 University Grenoble-Alpes, ED-ISCE doctoral school

Ad hoc reviewer: Journal of Vision, Quaterly Journal of Experimental Psychology, i-Perception

MEMBERSHIP

Vision Science Society — 2017-2020

ORGANIZATION OF SCIENTIFIC AND SOCIETY EVENTS

Participation in workshops for children for the **Brain Awareness Week** in Grenoble elementary schools — 2019
Small experiments and initiation to classical behavioral and perceptual effects (visual illusions, Stroop...)

Organizing committee **'Les Rencontres Jeunes Chercheur·e·s du LPNC'** — 2020 (event cancelled due to the Covid-19 pandemic)
Conference for, and organized by, french-speaking early carreer researchers in Cognitive Science

Organizing committee **'Les Rencontres Jeunes Chercheur·e·s du LPNC'** — 2019
Conference for, and organized by, french-speaking early carreer researchers in Cognitive Science

Organizing committee **'Journées de Printemps de la Société de Neuropsychologie de Langue Française'** — 2017
Conference for french-speaking neuropsychologists and researchers

COLLABORATIONS

University Grenoble-Alpes, LPNC (*Grenoble*): **Carole Peyrin, Louise Kauffmann, Audrey Trouilloud**

Université Catholique de Louvain, IPSY (*Louvain-La-Neuve*): **Valerie Goffaux**

University Grenoble-Alpes, GIPSA-Lab (*Grenoble*): **Nathalie Guyader**

University College London, PALS (*London*): **John Greenwood**

Lille University, SCALab (*Lille*): **Solène Kalenine**

Grenoble University Hospital, Department of Ophtalmology (*Grenoble*): **Florent Aptel**

TECHNICAL SKILLS

Programming: R, Matlab

Data vizualization and analysis: R, JASP stats, Statistica

Experimental design and data collection: Psychopy in Python, E-Prime, OpenSesame (basics), Psychtoolbox in Matlab (basics)

Neuroimaging (fMRI): Experimental design, Data processing and analysis (SPM12), Dynamic Causal Modeling (basics)

Reproductible writing: LaTeX, RMarkdown