

Project

Neural representation of intergenerational reading of facial expressions

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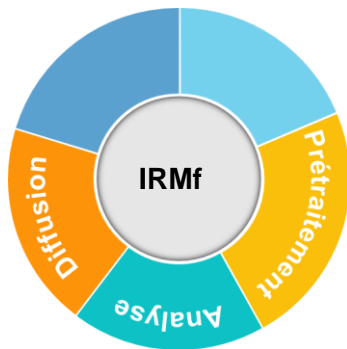
(1) LPL, (2) LNC

Abstract

The communication and reading of emotions via facial expression is ubiquitous in our daily exchange with our friends, partners, colleagues and kids. While a wealth of studies investigates reading of emotions in adults or children/adolescents, this project provides a first account of intergenerational emotional communication. In this project, participants watched adolescents and adults faces expressing different emotions during functional magnetic resonance imaging (fMRI). We expect higher similarity in patterns of activity produced for same-age faces, in face-specific occipitotemporal cortex, as well as in brain circuits involved in communication. This project will contribute to elucidating the effects of partner age on neural patterns engaged during (non-verbal) interactions.

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Neural representation of intergenerational reading of facial expressions

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Durée : depuis juillet 2022, reporté à juillet 2023

Contribution : traitements et analyses des données de neuroimagerie (RSA* notamment) et formation d'une étudiante à l'analyse en RSA (Valérie). Analyses en eye-tracking (Franziska)

*RSA = Representational Similarity Analysis

Objectif : L'étude repose sur l'enregistrement des mouvements oculaires lors d'une conversation Skype entre une personne de langue maternelle française, et l'autre de langue anglaise.

■ **Prétraitement** – data preprocessing of 30 participants

■ **Analyse** – data analysis of 30 participants: univariate analysis on whole brain and Representational Similarity analysis (Valérie). Analyses of eye-tracking (Franziska).

■ **Diffusion** –