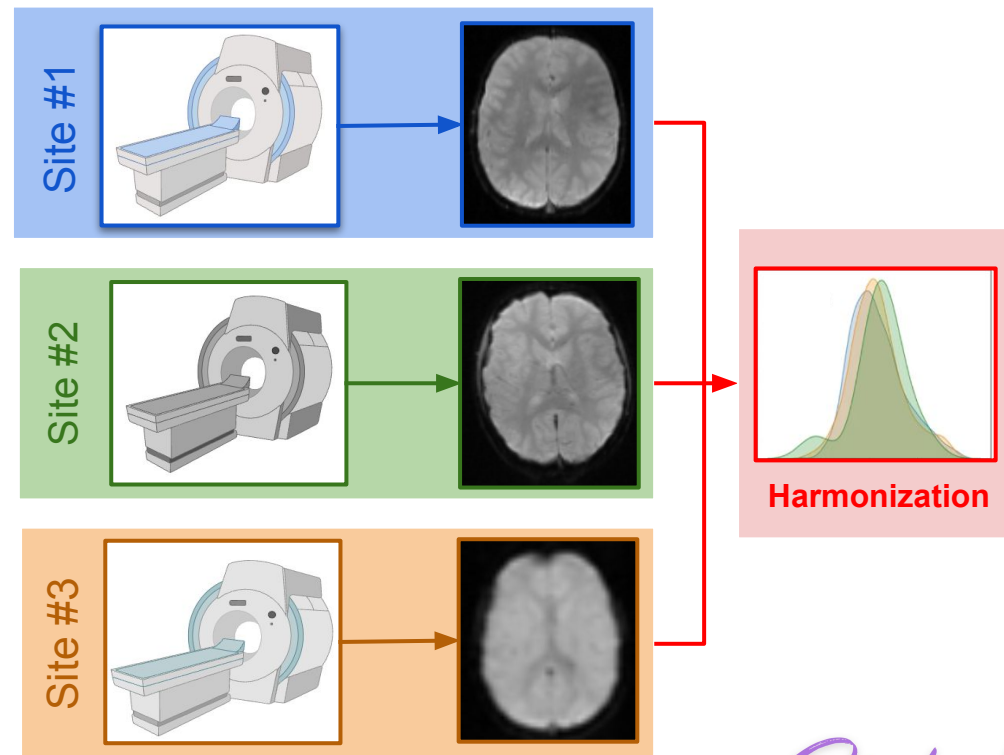


Does Nonverbal IQ Modulate the Relation Between Phonological Awareness and Reading Skill? Harmonization of Multi-Site fMRI-data

Isaac Chen & James R. Booth



Our Motivation

Reading skill (i.e. ability to read single words aloud) and **phonological awareness** (i.e. sensitivity to sound structure of language) are bi-directionally related, but the role of **nonverbal IQ** in this relationship is unclear.

Our Goal

Develop a **harmonization pipeline** using ComBat for task-based fMRI data in children to reliably remove between-scanner variability.

Snapshot of What We Will Do:

- Go through a simple ComBat tutorial.
- Run ComBat on our sample data.
- Evaluate effectiveness of harmonization and how motion affects it.

Discord channel # **fMRI_harmonization**

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