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Research topics: Modelling and Automatic Processing of Sign Language, from corpus linguistics to artificial intelligence.

Research questions :

- How can sign languages be analysed, represented and processed ?
- How can we take into account the specific linguistic characteristics linked to their visual-gestural nature (multilinearity, spatialisation, iconicity)?
- What types of approach are possible with little French sign language (LSF) data?

Research work :

- Corpus of LSF: constitution, annotation, analysis
 - Nature of the data: video, motion capture (mocap)
 - Multidisciplinary studies: computer science (analysis and synthesis), linguistics, movement sciences, movement perception
- Linguistic modelling to represent the functioning of LSF
 - Levels: articulatory, gestural unit, more complex structures
 - Articulators: hands/arms, bust, shoulders, head, face, facial elements (eyebrows, eyes, cheeks, mouth), gaze
- Animation of virtual signers and generation of speech in LSF
 - Creation of animations by rotoscoping, mocap or synthesis
 - Generation of statements from predefined animations
- Analysis of LSF videos
 - Annotation assistance
 - Automatic recognition

Publications sur [HAL](#) - **Corpora** sur [Ortolang](#).

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