Colloque - **June 24th - 25th, 2021**

The representation
of language in brains and machines

Convenors: Stanislas Dehaene, Stéphane Mallat, Luigi Rizzi

Program
9 h 30 > 18 h - Amphithéâtre Marguerite de Navarre

Open to the public, within space limits, subject to availability
Ouvert au public, en demi-jauge, dans la limite des places disponibles
The colloquium is also accessible through the following webinar link (registration is required):
https://zoom.us/webinar/register/WN_UEYZlAx-TEGQsjqb8KqDCg

June 24th

9.30 **Introduction**, *Stanislas Dehaene, Stéphane Mallat, Luigi Rizzi, Collège de France*

Semantics and Pragmatics: New Challenges for Machines? (1)
10 .00 **Philippe SCHLENKER,** *ENS, Paris, NYU*
Grammatical inferences without words

10.40 **Emmanuel CHEMLA,** *ENS, Paris*
A linguistic learning bias found in humans, animals, and artificial learners

11.20 *Break*

The Acquisition of Language
11.40 **Anne CHRISTOPHE,** *ENS, Paris*
Bootstrapping the syntactic bootstrapper

12.20 **Naama FRIEDMANN*,** *Tel Aviv University*
Developmental syntactic disorders and what they say about the critical period

13.00 *Break*

Natural Languages and Machine Learning Approaches
15.00 **Kyunghyun CHO*,** *New York University*
Few-shot learning is still difficult with large-scale language models

15.40 **Tomas MIKOLOV*,** *CIIRC, Czech Technical University*
Neural language models: the successes, and the challenges

16.20 *Break*

16.40 **Charles YANG,** *University of Pennsylvania*
Why children and machines learn differently

17.20 **Roger LEVY*,** *MIT*
Grammatical generalization and language processing in humans and machines

18.00 **General discussion**

June 25th

Cognitive Challenges for Computational Approaches
09.30 **Emmanuel DUPOUX*,** *EHESS & FAIR, Paris*
Simulating the emergence of linguistic categories in infants

10.10 **Marco BARONI*,** *ICREA, Barcelona; FAIR, Paris*
On the proper role of linguistically-oriented deep net analysis in linguistic theorizing

10.50 *Break*

Advances in Syntax and Parsing
11.10 **Andrea MORO & Cristiano CHESI*,** *Scuola Universitaria IUSS, Pavia*
The limits of competence and processing: the case of copular sentences

11.50 **Paola MERLO*,** *University of Geneva*
Beyond the Benchmarks: linguistically-informed notions of locality and similarity in distributed spaces

12.30 *Break*

Semantics and Pragmatics: New Challenges for Machines? (2)
14.00 **Gennaro CHIERCHIA*,** *Harvard University*
Quantifiers in natural language: the interface between syntax and logic

14.40 **Benjamin SPECTOR,** *ENS, Paris*
Logic, grammar and distribution: the case of polarity items

15.20 *Break*

Syntax and Parsing by Brains and Machines
15.40 **Christophe PALLIER,** *CNRS, Paris*
Probing syntax and semantics in the brain

16.20 **William MATCHIN,** *University of South Carolina*
The cortical organization of syntax: a minimalist perspective

17.00 *Break*

17.20 **Stanislas DEHAENE,** *Collège de France*
Why humans still trump machines: the language of thought hypothesis

18.00 **General Discussion**

* These talks will happen via zoom
 Ces interventions auront lieu via zoom

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─1530─

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Année
académique
2020/2021