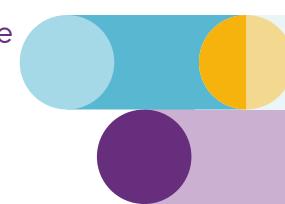# Atelier : Le traitement du langage naturel (NLP) à l'ère de l'IA générative, des sciences cognitives et de la transformation sociétale
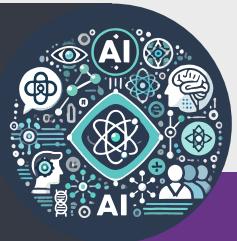
Jour 1 : NLP à l'ère de l'IA générative

8 h 30	**Séance d'ouverture**
9 h 00	**Session 1 : Traitement du langage naturel**
	• Claire Gardent, CNRS/LORIA, Nancy - Verbalising Graphs into High-, Medium- and Low-Resource Languages
	• Philippe Langlais, Université de Montréal - But (good) evaluation is informative too
	• Golnoosh Farnadi, McGill University/Mila - Algorithmic Fairness: From Traditional ML to Foundation Models
11 h 00	Pause café
11 h 30	**Session 2 : Multilinguisme**
	• François Yvon, CNRS, Paris - Towards Example Based Neural Machine Translation
	• David Adelani, McGill University/Mila - How good are LLMs on under-resourced languages?
13 h 00	Pause diner
14 h 15	**Session 3 : Traitement du langage naturel**
	• Siva Reddy, McGill University/Mila - Inductive Biases
	• Benoît Sagot, INRIA, Almanach, Paris: Why do small language models underperform Studying Language Model Saturation via the Softmax Bottleneck
	• Lili Mou - University of Alberta: Large language models are secretly your reward function
16 h 15	Présentation de posters
17 h 30	Fin de la première journée

Jour 2 : Explorer l'intersection des sciences cognitives et de l'IA dans l'apprentissage des langues

9 h 00	**Session 1 : Sciences cognitives**
	• Yang Xu, University of Toronto: Reconstruction of the dynamic lexicon
	• Abdellah Fourtassi, LIS, Marseille: NLP for the Ecological Study of Language Development
10 h 20	Pause café
10 h 50	**Session 2 : Neuroscience**
	• Guillaume Dumas, Université de Montréal/Mila: Mind the Gap: Mechanistic Bridges Between Large Language Models and the Brain
	• Benjamin Morillon - INSERM, INS, Marseille: Encoding the predictions of multidimensional sequences of natural speech and music in human auditory cortex
12 h 10	Pause diner
13 h 30	**Session 3 : Causal Model for NLP**
	• Maxime Peyrard, CNRS, LIG Grenoble: Interpretability of AI Systems: Overview and Future Directions
	• Dhanya Sridhar, Université de Montréal/Mila: Can we find better in-context learning solutions with causal inductive biases?
14 h 50	Panel : Un dialogue entre l'apprentissage automatique, le langage naturel et les sciences cognitives avec Aaron Courville, Université de Montréal/Mila
16 h 00	Présentation de posters
17 h 30	Fin de la deuxième journée

Jour 3 : Explorer l'intersection des sciences cognitives et de l'IA dans l'apprentissage des langues

9 h 00 — **Session 1 : Conversational AI**

- Dilek Hakkani-Tür, University of Illinois, Urbana-Champaign: AI over-reliance and dialogue systems accountability
- Mirco Ravanelli, Concordia University/Mila: Discrete Audio Tokens for Multimodal LLMs
- Roland Memisevic, Qualcomm, Toronto: End-to-end learning of camera-based, situated interactions

11 h 00 — Pause café

11 h 30 — **Session 2 : Information Retrieval and Argument Mining**

- Serena Villata, CNRS, I3S, Nice: The Long Road to Trustworthy Natural Language Argumentation
- Jimmy Lin, University of Waterloo: The Future of Information Retrieval and the Role of Evaluation

12 h 50 — Pause diner

14 h 00 — **Session 3 : Application Domain**

- Saif Mohammad, Research NRC, Ottawa: NLP for Affective Science: What are the big questions? And, how do we get there?
- Frank Rudzicz, Dalhousie University, Halifax: NLPrimum Non Nocere
- Geraldine Damnati, Orange Innovation, Lannion: From benchmark assessments to In-Use evaluations: an even wider gap to bridge at the era of generative AI.

16 h 00 — Mot de clôture

16 h 30 — Fin de la troisième journée