

Département  
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Faculté de médecine

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## Carsen Stringer, Ph. D.

American computational neuroscientist and Group Leader  
Howard Hughes Medical Institute Janelia Research Campus

### *Unsupervised pretraining of neural representations for task learning*

**Vendredi 29 septembre 2023**

12 h à 13 h

#### En présentiel

Pavillon Paul-G.-Desmarais | 2960, chemin de la Tour, **local 1120**

#### En ligne

<https://umontreal.zoom.us/j/82037705482?pwd=S3A5NXJGMnhjTCtMc0oOVmduMU1mUT09>

#### **Career and research:**

Carsen Stringer is a group leader at HHMI Janelia Research Campus. Her lab designs experiments and develops machine learning tools for understanding large-scale neural computations. In addition, the lab works on general segmentation algorithms for cellular data, which enable fast and accurate processing of 50,000+ neuron recordings.

Carsen Stringer wants to understand how neurons work together to quickly parse sensory information to guide decision-making for motor actions. Stringer and her team develop techniques to analyze large-scale neural data and from these analyses, generate hypotheses about how neural circuits compute behaviorally relevant visual features. Some of their ongoing projects include creating a neural atlas of behavioral representations across the mouse brain, comparing neural activity to deep neural networks trained on various visual tasks, and fitting biologically plausible deep network models to visual cortical neural activity. The team also works to develop tools to process large-scale imaging data.

**Entrée libre**

*La conférence sera présentée en anglais*

**Personne-ressource pour rencontrer le conférencier :** [Matthew Perich](mailto:matthew.perich@umontreal.ca)  
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