

# Interpretability in Artificial Intelligence

Banff Research International Station (Alberta, Canada)

May 2-6 2022

# Workshop objectives

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Discuss recent advances in Interpretable AI:

- ▶ **Novel methods:**
  - ▶ Understanding black-box models
  - ▶ Transparent approaches
  - ▶ Causality
  - ▶ Novel metrics to evaluate interpretability methods
  - ▶ Model selection
- ▶ **Applications in computational biology:**
  - ▶ Mechanistic understanding of deep learning models
  - ▶ Generations of new hypothesis



# Coordinators

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- Maria Rodriguez Martinez – IBM Research Zurich (Switzerland)
- Joaquin Dopazo – Fundación Progreso y Salud (Spain)
- An-phi Nguyen – IBM Research Zurich (Switzerland)
- Carlos Loucera – Fundación Progreso y Salud (Spain)

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Additional help from:

Mara Graziani – IBM Research Zurich

Davide Cirillo – Barcelona Supercomputing Center

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# Logistics

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- ▶ **Scheduled available at:**

- ▶ <https://workshops.birs.ca/events/22w5055/schedule>

- ▶ All times are in **Mountain Time (UTC-6)**

- ▶ **Zoom Meeting Links**

- ▶ **Main meeting** *where all talks will take place*

- ▶ <https://ubc.zoom.us/j/66793331694?pwd=bzZaZXUwbGZjR2ZoNEFnWjl0WUUpHQQT09>

- ▶ Meeting ID: 667 9333 1694

- ▶ **File Uploads - to Share Your Slides**

- ▶ <https://files.birs.ca:4430/sharing/ukMQmnOoy> (please make sure that you enter at least your last name when prompted)

- ▶ **password:** 22w5055

- ▶ The slide uploads will be transferred to [the workshop website](#) every hour.



# Structure of talks

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- ▶ **Long talks:**
  - ▶ 40 min presentation + 10 min of questions
- ▶ **Normal talks**
  - ▶ 25 min presentation + 5 min of questions
- ▶ **Flash talks**
  - ▶ 10 min

Please, be mindful of the time when delivering your presentation.



# Two panel discussions

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- ▶ **Biases in AI"** (Tuesday 16:30)
- ▶ **Q&A and Brainstorming about future directions** (Thursday 16:30)
  - ▶ Please, submit your questions by Wednesday:
- <https://docs.google.com/document/d/1dXRkQM0gd4TkKgJojIeXjY2M6nTBHrB0eX-hOBdzRN8/edit?usp=sharing>

