



UNIVERSITY OF
WATERLOO

université
de **BORDEAUX**

Workshop Inria- University of Waterloo- Université de Bordeaux

Dates: **21 & 22 February 2024**

Venue: **Room Ada Lovelace**, 3rd Floor- **Inria center of the University of Bordeaux**, 220 avenue de la Vieille Tour, 33405 Talence.

Wednesday 21 February 2024

09:00- 09:30 **Welcome Coffee**

09:30- 10:00 **Introductory Talks:**

- Nicolas Roussel, Director Inria Centre at the University of Bordeaux
- Laurent Servant, VP International, University of Bordeaux
- Bernard Duncker, Associate VP Research and International, University of Waterloo
- Cécile Vigouroux, Director of International Relations, Inria

Scientific Session 1- Digital Health

10:00-11:00 Keynote

- [François Pattou](#), Université de Lille, CHU Lille, *Precision medicine for obesity and related diseases*

11:00-12:40 Short talks

- 11:00-11:20 [Dillon Browne](#), University of Waterloo, *Digital Technology and Child & Family Mental Health: The Good, The Bad & The Ugly.*
- 11:20-11:40 [Macha Nikolski](#), Bordeaux Bioinformatics Center, Université de Bordeaux, CNRS-IBGC, *Bioinformatics and AI in the Quest for Cancer Biomarkers and Understanding Tumour Aggression*
- 11:40-12:00 [Plinio Morita](#), University of Waterloo, *Advancing Healthy Aging: The Use of IoT and Social Media Data in Public Health*
- 12:00-12:20 [Cécile Proust-Lima](#), INSERM, BPH, Université de Bordeaux, *Prediction of health events from multidimensional data collected over time*
- 12:20-12:40 [Sylvie Berthoz](#), INSERM, INCIA, Université de Bordeaux, *Digital phenotyping and monitoring of neuropsychiatric disorders*

12:40- 13:00 Focus on Cooperation Programs

13:00- 14:00 Lunch

Scientific Session 2- Artificial Intelligence

14:00- 15:00 Keynote

- [Shai Ben David](#), University of Waterloo, *Fairness Interpretability and Reliability in machine learning applications*

15:00- 15:30 Coffee break

15:30- 17:00 Short Talks

- 15:30-16:00 [Fabien Lotte](#), Inria (team POTIOC), *Machine Learning Tools for Mental States Estimation from Brain Signals*
- 16:00-16:30 [Jenny Benois-Pineau](#), LaBRI, Université de Bordeaux, *Detection of risks of Frail people in @home environment with hybrid human sensing and AI*
- 16:30-17:00 [Yuri Boykov](#), University of Waterloo, *Entropy-based Clustering and Margin Maximization*

17:00- 17:30 Panel on AI

17:30- 18:00 Focus on interdisciplinary projects U. Bordeaux/U. Waterloo

- 17:30-17:45 [Thierry Toupance](#) et [Cédric Crespos](#), ISM (Institut des Sciences moléculaires), Université de Bordeaux, *Advancing Food and Beverage Quality Control: A Machine Learning Approach Using Metal Oxide-Organic Thin Film Chemiresistive gas sensor*
- 17:45- 18:00 [Hélène Debeda](#) et [Laurent Oyhenart](#), IMS (Intégration du matériau au système), Université de Bordeaux, *Equitable monitoring and Remediation of Air Pollution*

Thursday 22 February 2024

09:00 -09:30 Welcome Coffee

Scientific Session 3- Human-Computer Interaction

9:30- 10:30 Keynote

- [Wendy Mackay](#), Inria (team EX-SITU), *Designing with Generative Theories of Interaction*

10:30- 12:30 Short Talks

- 10:30-10:50 [Arnaud Prouzeau](#), Inria (team ILDA), *Experiencing Visualisation: Using Immersive Technology to Visualise and Explore Data*
- 10:50-11:10 [Hélène Sauzeon](#), Université de Bordeaux (Inria team FLOWERS), *CuriousTECH associate team : From the study of curiosity-driven learning across life-span to the design of new interactive curiosity-driven systems driven for learning in real-life setting.*
- 11:10-11:30 [Kami Vaniea](#), University of Waterloo (Technology Usability Lab in Privacy and Security), *Usable security and privacy: understanding and overcoming barriers for all sorts of users*
- 11:30-11:50 [Géry Casiez](#), Université de Lille (Inria team LOKI), *Technology & Knowledge for Interaction*
- 11:50-12:10 [Edith Law](#), University of Waterloo (Augmented Intelligence Lab / HCI Lab), *Humans Augmenting AI, AI Augmenting Humans, and Designing Technologies for Actualizing Human Values*
- 12:10- 12:30 [Anne-Hélène Olivier](#), Université de Rennes 2 (Inria team VIRTUS), *Immersive populated virtual spaces: when Movement Science meets Virtual Reality*

12:30- 14:00 Lunch

Scientific Session 4- Cybersecurity and Privacy

14:00- 15:00 Keynote

- **Noura Liman**, University of Waterloo, *Machine Learning for Network Security*

15:00 - 17:00 Short talks

- 15:00-15:30 [Damien Robert](#), Inria (team CANARI), *Isogeny based cryptography: from the fall of SIKE to the rise of higher dimensional isogenies*
- 15:30-16:00 [Diogo Barradas](#), University of Waterloo, *De-anonymizing Tor Onion Services with Flow Correlation Attacks*
- 16:00-16:30 [Debabrota Basu](#), Inria (team SCOOOL), *The Privacy Game: Designing Attacks with and Defenses for Online ML Algorithms*
- 16:30-17:00 [Meng Xu](#), University of Waterloo, *Prompting LLMs to Find Software Vulnerabilities*

