



# International Conference on Machine Learning 23<sup>rd</sup> – 29<sup>th</sup> July 2023 - Hawaii

The UKRI CDT AI for Healthcare (AI4Health) was proud to participate in the 40<sup>th</sup> International Conference on Machine Learning (ICML) at Hawaii Convention Center from Sunday 23<sup>rd</sup> July to Saturday the 29<sup>th</sup> July 2023.

ICML is a highly regarded global conference known for showcasing and sharing cutting-edge research in machine learning, artificial intelligence, statistics, and data science. It serves as a crucial platform for introducing innovative studies in areas like machine vision, computational biology, speech recognition, and robotics. As a premier scholarly gathering in AI's machine learning sector, ICML remains a driving force for advancing innovation and knowledge exchange at the forefront of the field.



In addition to participating in ICML as an exhibitor, our students' submissions achieved notable success. Joshua Southern, Paul Festor and Alexander Jenkins had the opportunity to showcase their research across the various conference sessions.



## Joshua Southern

- ***On the Expressive Power of Ollivier-Ricci Curvature on Graphs***  
2nd Annual Topology, Algebra, and Geometry in Machine Learning Workshop
- ***Evaluation Metrics for Protein Structure Generation***  
ICML 2023 Workshop on Computational Biology

## Alexander Jenkins

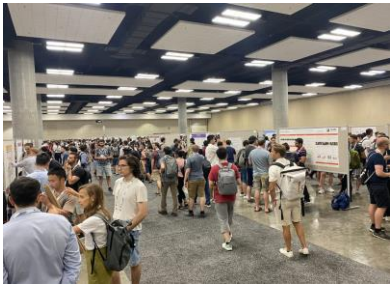
- ***Improving diffusion models for pulse imputation using augmented template prior***  
ICML Workshop Interpretable Machine Learning in Healthcare

## Paul Festor

- ***Interaction safety of doctors with RL decision support with eye-tracking-based behavioural markers***  
Workshop on Interpretable Machine Learning for Healthcare
- ***How vulnerable are doctors to unsafe hallucinatory AI suggestions? A framework for evaluation of safety in clinical human-AI cooperation***  
Workshop on AI and Human-Computer Interactions



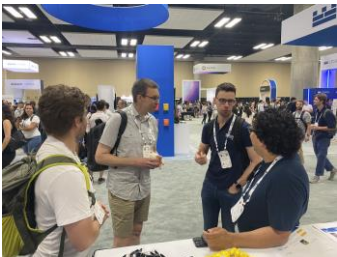
# A Conference Snapshot



Paul Festor showcasing his work to the conference audience.

**Presenter Paul Festor**

- Friday 28<sup>th</sup> July 2023**  
Interaction safety of doctors with RL decision support with eye-tracking based behavioural markers  
Workshop on Interpretable Machine Learning for Healthcare (ICML & poster presentation)
- Saturday 29<sup>th</sup> July 2023**  
How vulnerable are doctors to unsafe hallucinatory AI suggestions? A framework for evaluation of safety in clinical human-AI cooperation  
Workshop on AI and Human-Computer Interactions (Poster presentation)



**ICML 40 Years**  
International Conference on Machine Learning

**Thank You to Our Exhibitors**

**Sponsors:** Intel, Microsoft, NVIDIA, etc.

**Exhibit Hours:**  
Sunday July 23: 9:00 am - 6:00 pm  
Monday July 24: 9:00 am - 6:00 pm  
Tuesday July 25: 9:00 am - 6:00 pm  
Wednesday July 26: 9:00 am - 6:00 pm



Our students' contribution and assistance in addressing enquiries about the AI4Health Centre and our research was truly valuable - Edison Liu, Paul Festor, Alexander Jenkins, Joshua Southern and Ioannis Afentakis.