



AI and the Uncertainty Challenge in Fundamental Physics

outro



David Rousseau (IJCLab) for the scientific
committee

ARTIFICIAL INTELLIGENCE AND THE UNCERTAINTY CHALLENGE IN FUNDAMENTAL PHYSICS

27 NOV - 1 DEC 2023

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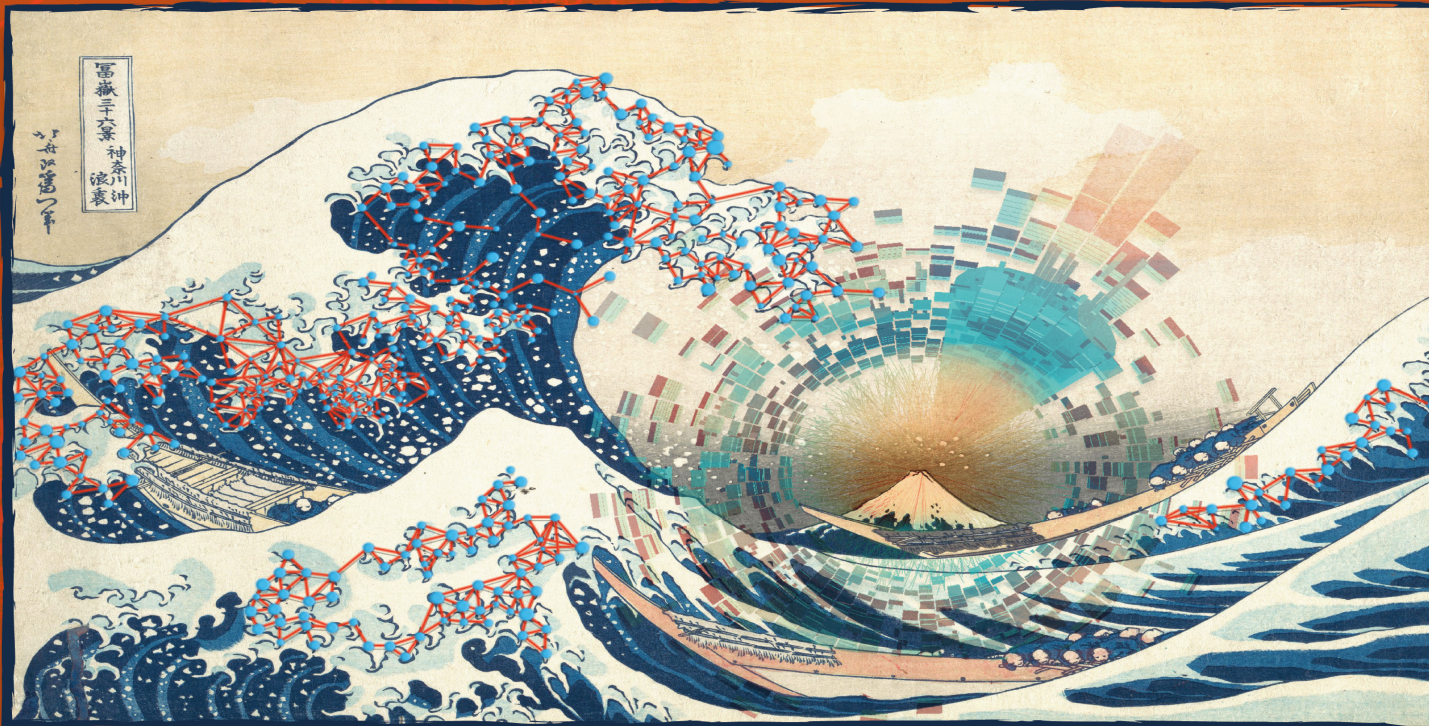
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CalTech

Thomas Vuillaume
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Program Manager
Vincent Folliard
AISAI



- UNCERTAINTY QUANTIFICATION
- EXPLAINABLE/TRUSTWORTHY AI
- DATA-FRUGAL/DATA-CENTRIC AI
- SIMULATION-BASED INFERENCE,
UNFOLDING,...
- ARCHITECTURES: ADVERSARIAL,
BAYESIAN,...
- CONTROLLING UNCERTAINTIES
IN GENERATIVE MODELS
- BENCHMARKS DATASET
AND CHALLENGES



[INDICO.IN2P3.FR/E/AIUPHYS2023](https://indico.in2p3.fr/e/aiuphys2023)

SCAI, PARIS AND INSTITUT PASCAL PARIS-SACLAY



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Big Thanks

Scientific Committee

- ❑ Corentin Allaire (IJCLab-Orsay, Université Paris-Saclay)
- ❑ Olaf Behnke (DESY)
- ❑ Anja Butter (LPNHE-Paris)
- ❑ Sylvain Chevallier (LISN, Université Paris-Saclay)
- ❑ Valérie Gautard (CEA-Irfu)
- ❑ Louis Lyons (Imperial College & Oxford)
- ❑ David Rousseau (IJCLab-Orsay, Université Paris-Saclay)
- ❑ Jean-Roch Vlimant (CalTech)
- ❑ Thomas Vuillaume (LAPP-Annecy)

Also

- ❑ Vincent Folliard program manager at AISSAI
- ❑ Vesna Kupic program manager at Institut Pascal

Also

- ❑ Speakers, and participants

Sponsors





ARTIFICIAL INTELLIGENCE AND THE UNCERTAINTY
CHALLENGE IN FUNDAMENTAL PHYSICS

27 NOV - 2 DEC 2023

AI S2AI

GRIP

INP

AISSAI

& Institut Pascal
would like to thank you
for your coming and your participation



Fair Universe



AAP

21.11.23

COFUND DeMythif.AI | Call for international applications to PhD program

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← RETOUR AUX ACTUALITÉS

MODALITÉS DE SÉLECTION

ACTUALITÉS SUR LE MÊME THÈME

PARTAGER    

Application for 15 grants on 40 possible PhD topics on the theme of "AI and uncertainty" has opened at Université Paris-Saclay, it will close Wed 17th January 23:59 CET.

15 successful candidates will be fully funded for 3-years PhD, starting fall 2024. For each selected candidate, the european Marie Skłodowska Curie Action DeMythif.AI funds a doctoral scholarship of excellence, with a competitive salary higher than regular French grant, funding for entrance mobility and mobility during PhD. DeMythif.AI students will benefit from dedicated events, specific doctoral training courses and have the opportunity to spend up to three months in an external company or laboratory through the complementary activities support.

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AISSAI

Anomaly Detection Workshop

March 4-7, 2024

CLERMONT-FERRAND, FRANCE

Speakers

Mazen Alamir (GIPSA-lab, France)
Shikma Bressler (Weizmann, Israel)
Gregor Kasieczka (U. Hamburg, Germany)
Mikael Kuusela (CMU, USA)
Carole Lartizien (CREATIS, France)
Konstantin Malanchev (LINCC Frameworks/CMU, USA)

Scientific Organizing Committee

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<https://indico.in2p3.fr/e/AISSAI2024>



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See you in 2015 ?