

# Ayrton San Joaquin

🔬 [SCIENTIST, TRUSTWORTHY AI](#) | ✍️ [WRITER](#)

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## Education

### Yale-NUS College

BSc. (HONORS) IN DATA SCIENCE, MINOR IN PHILOSOPHY. (**SCHOLAR, WITH HIGH DISTINCTION**)

Semester Abroad at the University of Copenhagen, Denmark

*Singapore*

*August 2018 - May 2023*

## Experience

### AI Standards Lab

RESEARCH ANALYST

- Contributing to the Codes of Practice of the EU AI Act.

*Singapore & Spain*

*August 2024 - Present*

### French National Centre for Scientific Research (CNRS)@CREATE

#### International Research Laboratory on Artificial Intelligence (**IPAL**- by appointment)

AI SCIENTIST, **DESCARTES PROGRAM**

- Led a Franco-Singaporean team studying efficient fine-tuning of Large Language Models (LLMs). Published at EMNLP Findings 2024.
- Created and curated the Tagalog dataset of <https://seaeval.github.io/>, a multilingual benchmark for Southeast Asian Languages.

*September 2023 - August 2024*

*Singapore*

### Machine Learning Safety Scholars Program, Center for AI Safety

SCHOLAR

- Studied model failures (CV and NLP), and led research on analyzing LLMs using few-shot learning.
- Implemented various strategies in **robustness** (PGD, adversarial training), **anomaly detection** (AUROC, ViM), **calibration** (RSME, Brier scores), and **trojan attacks** (data poisoning).

*Palo Alto, United States*

*June 2022 - August 2022*

### Data Privacy and Trustworthy Machine Learning Lab, NUS

UNDERGRADUATE RESEARCHER

- Collaborated with Google DeepMind on privacy and adversarial machine learning research for my bachelor's thesis in a team across 4 time zones. **Published in a top security conference (ACM CCS) as the youngest and only undergraduate co-author.**

*Singapore*

*May 2021 - March 2022*

### Arterys (Freelance)

DEEP LEARNING ENGINEER

- Created a COVID-19 Pneumonia classifier **4 days after pandemic declaration in collaboration with A.I. Singapore.**
- Collaborated with Arterys to [deploy the model in their platform](#) for use by American hospitals and researchers. Model engineer in a team of 4 across 3 time zones.

*San Francisco, United States*

*March 2020 - June 2020*

## Honors & Public Service

### AI Safety Connect 2025

- Invited to present about risk management, an official side-event of the Paris AI Action Summit.

*Paris, France*

### International Association for Safe and Ethical AI Conference 2025

- Invited to present about risk management at IASEAI Conference, an official side-event of the Paris AI Action Summit

*Paris, France*

### The AI Summit Singapore 2024

- Invited as a featured speaker to discuss about data privacy for Generative AI at Asia Tech x Singapore, co-hosted by the Singapore Government.

*Singapore*

### Public AI Advocacy

- Co-authored a foundational document of a global network of AI researchers, policymakers, and practitioners to center AI research and development in the public interest and as public infrastructure.

*Global*

### Project Aria Timeline Builder Workshop 2023

- Invited by Meta Reality Labs to design a use-case for [Project Aria](#). Participated as the only bachelor's graduate among 20 graduate and postdoctoral researchers. [Video demo](#).

*Menlo Park, United States*

## Publications

January 2025	Gipiškis, R. and <b>San Joaquin, A.</b> , et. al. , Risk Sources and Risk Management Measures in Support of Standards for General-Purpose AI Systems. <i>Under Review</i>	<a href="#">link</a>
November 2024	<b>San Joaquin, A.</b> , et. al. , In2Core: Leveraging Influence Functions for Coreset Selection in Instruction Finetuning of Large Language Models. <i>EMNLP Findings 2024</i>	<a href="#">link</a>
November 2022	Tramer, F., ..., <b>San Joaquin, A.</b> , et.al. , Truth Serum: Poisoning Machine Learning Models to Reveal Their Secrets. <i>ACM Conference on Computer and Communications Security (CCS) 2022</i>	<a href="#">link</a>