ANTHONY KOBANDA

MACHINE LEARNING, DEEP LEARNING & REINFORCEMENT LEARNING

✉ anthony.kobanda@gmail.com 📞 + 33 6 22 21 52 47 in [anthony-kobanda](#) 8⁺ [Anthony Kobanda](#) 🐦 [@akbdx18](#)

I am a **final year PhD Candidate** in Deep Reinforcement Learning at Inria Scool and Ubisoft, working under the supervision of **Odalric-Ambrym Maillard**, **Rémy Portelas**, and **Ludovic Denoyer**. I explore **Deep RL**, **Continual RL**, and **Goal-Conditioned RL**, with applications in video games addressing challenges such as efficiency, generalization, and scalability. My objective is to build and contribute to efficient, innovative, and adaptive artificial intelligence systems, with positive real-world applications.

LANGUAGES

French ● ● ● ● ●
English ● ● ● ● ○
Spanish ● ● ○ ○ ○
Chinese ● ○ ○ ○ ○

SOFT SKILLS

❖ Critical Reasoning
❖ Modelling & Prototyping
❖ Teamwork & Sociability
❖ Working Under Pressure

PROGRAMMING

Python, PyTorch, JAX, Hydra, NumPy, Pandas, Scikit-Learn …

TOOLS

Conda, Docker, Gitlab, SLURM, … more to come (quick learner)

PERSONAL INTERESTS

I have been playing basketball for fourteen years. On my free time, I started video editing and animation on my own. I enjoy reading mangas and comics, watching movies and TV series of various genres. On my free time, I also like to play to open world RPGs such as World of Warcraft.

EDUCATION

2023 – Now
- **Ph.D.** **Inria Scool (ex-Sequel), University of Lille** | Lille, France
  Ph.D. in Deep Reinforcement Learning, exploring Continual Reinforcement Learning
  Under the supervision of Odalric-Ambrym Maillard, Rémy Portelas & Ludovic Denoyer

2021 – 2022
- **M.S.** **École polytechnique** | Palaiseau, France
  Master of Science & technology, Artificial Intelligence & Advanced Visual Computing
  Under the supervision of Marie-Paule CANI & Erwan SCORNET
  Main Courses : Deep Learning, Reinforcement Learning, 3D Graphics, Computer Vision, Data Analysis (Geometry & Topology), NLP, Conversational Agents, Robotics

2018 – 2022
- **M.S.** **École polytechnique "Cycle Ingénieur Polytechnicien"** | Palaiseau, France
  Master of Science & Computer Engineering – Outstanding Investment Acknowledgment
  Main Courses : Computer Science (Algorithms, Machine Learning, 3D Graphics, Big Data), Data Analysis (Data Visualization, Text Mining, Natural Language Processing), Applied Mathematics (Probabilities, Random phenomena Modelling, Numerical analysis), Entrepreneurship (Economics, Business Model, Innovation & Strategy, Market Study)

Sept. – Dec. 2018
- **National Gendarmerie Officers' Academy** | Melun, France
  3-Months Intensive Military Training – Obtaining the rank of Junior Officer
  Main courses : Military Tactics, Police Procedures, Crossfit, Use of firearms
  Skills acquired : Teamwork, Resilience, To get things done.

2015 – 2018
- **B.S.** **Lycée Jean-Baptiste Kléber** | Strasbourg, France
  Preparatory Classes for French "Grandes Écoles" in Mathematics, Physics & Philosophy

WORK EXPERIENCE

April 2023 – Now
- **Ph.D.** **Ubisoft** | Bordeaux, France
  Ph.D. in Deep Reinforcement Learning, exploring Continual Reinforcement Learning
  Under the supervision of Odalric-Ambrym Maillard, Rémy Portelas & Ludovic Denoyer

Oct. 2022 – April 2023
- **Junior Research Scientist** **Ubisoft** | Bordeaux, France
  Junior Research Scientist working on Deep Learning for Budgeted RL
  Under the supervision of Ludovic Denoyer

April – Oct. 2022
- **M.S. Internship** **Ubisoft** | Bordeaux, France
  Research Scientist Intern working on Deep Learning for Budgeted RL
  Under the supervision of Ludovic Denoyer

April – Sept. 2021
- **M.S. Internship** **Institut de Recherche en Informatique** | Toulouse, France
  Research Engineer Intern at the Toulouse Cancer Research Center (CRCT)
  Under the supervision of Sylvain CUSSAT-BLANC
  I programmed a robot and a web interface to perform semi-automated injections. I developed a surrogate model of an agent-based model to model cell cultures under constraints. This project led to the proposal and acceptance of an article to the third edition of the ISMCO.

July – Sept. 2020
- **M.S. Internship** **BCI Asia** | Singapore (Remotely)
  Data Scientist Intern working on Database Cleaning and Prospection Tools

2019 – 2021
- **XProjets – *Junior Enterprise*** | Palaiseau, France
  Senior Project Manager, Event Manager, Business Development Assistant
  During a two-year mandate, I was responsible of developing proposals and business strategies, recruiting qualified students to carry out the missions of our clients (large companies, start-ups and even individuals). Thanks to our efforts, for the first time in more than ten years, XProjets is recognized as one of the 30 most successful French Junior Enterprise.

2019 – 2020
- **X-Afrique** | Palaiseau, France
  Strategy & Development Manager
  Over a two-year term, we have had to organize the annual forum, coordinate associative projects and seek partners to support us in achieving our goals. Notably, I was the initiator and the organizer of an event on the issues of colonialism, with Pascal Blanchard as main speaker.

Dec. 2018 – April 2019
- **National Gendarmerie** | Châteaulin, France
  Deputy Section Head
  For five months, I oversaw a section of 33 non-commissioned officers in training.