

Xingjian Bai

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| CONTACT | xingjian.bai@sjc.ox.ac.uk | 86-18611170179 |
| EDUCATION | MMathComSci, Mathematics and Computer Science University of Oxford , Oxford, U.K. First Year: Gibbs Prize (CS ranking 1/39), Distinction Second Year: Distinction | June 2023 |
| EXPERIENCE | Oxford Mathematics Institute, Research Intern , Designed a normalized robustness metric for Neural Networks using optimal transport theory; outperformed all existing metrics in efficiency; conducted experiments on many SOTA robust training schemes. Funded by St John's college special grant and Mathematics Institute. NAACL, Workshop on Online Abuse and Harms, Reviewer , Served in the Committee for WOA 2022. Reviewed two submitted papers. Megvii Research Lab, Researcher Intern , Interned at the Intellectual Computing team, Megvii Research Institute. Implemented and tuned state-of-the-art ViT-based models to deal with image copy detection. Oxford AI society, Student Researcher , Researched on multimodal machine learning methods to detect hateful memes. Co-authored a paper accepted by the Workshop on Online Abuse and Harms, NAACL. Oxford Strategy Group Digital & Tencent, Project Lead , Led a team of 5 to evaluate AI recommendation systems in JOOX, a music platform. Modux, Software Developer , Developed a cybersecurity tool for padding oracle attack on Cipher Block Chaining. Stanford InfoLab, Independent Researcher , Proposed a Graph Convolutional Neural Networks structure to detect online hateful users on Twitter; achieved SOTA accuracy; authored an academic report. | July 2022 March 2022 August 2021 February 2021 April 2021 December 2020 December 2019 |
| HONORS | Gold Medalist , Northwestern Europe Collegiate Programming Contest Outstanding Winner & best paper (top 2 / 2461), 37th Mathematical Contest in Modeling (MCM) Silver Medalist , Northwestern Europe Collegiate Programming Contest 2nd Place , MathWorks Minidrone Competition for EMEA 2021 Finalist , Huawei European High Performance Challenge Winner (1 out of 66), <i>Hack the hackers' hack</i> , Oxford Hackathon Full score & national 1st place , USA Computing Olympiad (USACO) National 1st place , Canadian Computing Olympiad (CCO) Silver medalist , Chinese National Olympiad in Informatics (NOI) | 2022 2021 2021 2021 2020 2020 2019 2018 2018 |
| PROJECTS | Bootcamper, ML for Alignment Bootcamp, Redwood Research , Intense 3-week program at Berkeley focusing on ML interpretability tools and AI alignment. Experimented with WideResnet, GPT-small, Stable Diffusion, etc. Organizer, Oxbridge Programming Varsity , Organized the Oxbridge Programming Competition 2021 (50+ participants). Designed questions, implemented solutions, and gave presentations on advanced algorithms. ML Trainee & Researcher, DeeCamp, Sinovation Ventures , Invited as the youngest participant to this advanced AI training camp; proposed a model to make tick-size trading in foreign exchange market. | 2022 2021 2020 |
| SKILLS AND INTERESTS | Languages: Proficient in C++, Python; experienced in Java, Scala, and Haskell. Interests: Go (Weiqi), tennis, jogging (10K PB: 42 mins), science fictions. | |