Yuzuki Amaizumi

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EDUCATION

University of Oxford Oct 2022 – Jun 2026
Master in Mathematics and Computer Science
- Postmaster of Merton College, University of Oxford

EXPERIENCE

Oxford Artificial Intelligence Society | Researcher, *Fairness Diffusion Models Team* Dec 2023 – Present
- Generating models and exploring methods to extrapolate age while disentangling race in latent space within stable diffusion

Nikkei | Intern, *Data Engineer* Sep 2023
- Analyzed internal data from Nikkei Atlas to identify demographic and usage trends with SQL, Python and BigQuery
- Refined Nikkei internal search engine accuracy using Google's Natural Language Processing API framework
- Co-developed supplementary chat-bot using GPT and FastAPI as a client-side extension

teamLab | Intern, *Machine Learning Team* Jul 2023 – Aug 2023
- Developed and presented an optimization algorithm on placing moving ropes without collision in 3D space
- Improved heuristic score by 28.5% compared to client's in-house model, and automated the full optimization process to be used in future projects and exhibits
- Improved precision and running time with annealing and concurrency in C++

Oxford University CompSoc | Head of Talks May 2023 – Present
- Responsible for inviting and coordinating events with internal and external speakers in computer science
- Past speakers: David J. Malan, Kevin Buzzard, Brent Mittelstadt, and Peter Millican

PHOTOGRAPHY

Publications
- Person 1, Person 2, *T. Kamegai*, Person 4. **"Project Name, title or what not"**, CONFERENCE NAME IF IT EXISTS.

Contributions
- *T. Kamegai*, Palindromic primes under prime bases, entries A372141 and A372142 in The On-Line Encyclopedia of Integer Sequences, Apr 2024
- *T. Kamegai*, Probability sequence on a coin flipping game variant, entry A369580 in The On-Line Encyclopedia of Integer Sequences, Jan 2024