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# Leo Zhang

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## EDUCATION

- University of Oxford (2023-2028) **Oxford, UK**
  - Current DPhil student on the Modern Statistics and Machine Learning CDT (StatML) supervised by Prof. Yee Whye Teh.
  - Interested in LLMs, AI4Science, Deep Generative Modelling and Geometric Deep Learning.
  - First mini-project on meta-learning for fine-tuning LLMs.
- University of Oxford (2022-2023) **Oxford, UK**
  - Graduated from the MSc in Statistical Science with distinction.
  - Achieved 84% for exams and 85% for dissertation.
  - Dissertation title: “Variational Inference for Bayesian Nonparametric Manifold Learning”, supervised by Prof. Judith Rousseau.
- Imperial College London (2019-2022) **London, UK**
  - Graduated from the BSc in Mathematics with first-class honours.
  - Achieved Dean’s List (Top 10% of the cohort  $> 200$ ) in each year, with an overall total of 84.48%.
  - Won Imperial’s Winton Capital prize for being part of the group with the best second-year group project (£170 each) - our topic was on Braid Groups.

## INTERNSHIPS

- Research Project at Durham University: **Summer 2022**
  - Developed an algorithm for the dimensionality reduction of point cloud data, sampled from manifolds, and the quotient identifications (in the projection) necessary to recover the original geometry; implemented as a Python package. Participated in a reading course on category theory and sheaf theory, and attended the conference “ATMCS 10”. Supervised by Dr Ximena Fernández and Prof. Jeffrey Giansiracusa. Funded by a London Mathematical Society undergraduate research bursary (£1800).
- Internship with Multiwave Technologies AG: **Summer 2021**
  - Developed and implemented machine learning models for the analysis of “meta-scintillators”, for the improvement of scintillators used by PET scanners. Solely responsible for the end-to-end data and machine learning pipeline.
- Research Project (UROP) at Imperial College London: **Summer 2020**
  - Worked with a company, Shotpage, to develop a machine learning model to categorize tennis shots from their proprietary database of tennis videos, funded (£2700) and supervised by Prof. William Knottenbelt.

## EMPLOYMENT

- Employed by Imperial College’s mathematics department to lead peer tutor sessions each week, for a group of six first-year mathematics undergraduates, to provide mathematical support and teaching (November 2021 - March 2022).