

## EDUCATION

- University of Oxford** (*BA (Hons), Mathematics and Statistics*), Oxford, UK Oct 2022 - Jun 2025
- Fellow* of the *SDG Impact Lab*, to advance UN SDGs via impact-driven projects; First-ever undergraduate selected
  - Women in CS Scholarship* from *Bending Spoons*, for merit; 1% (20/1600) under&postgrad in Europe, sole in UK
  - Catherine Hughes Grant* from *Somerville College*, to fund initiatives for intellectual curiosity and social conscience
  - Inaugural AI UK Scholar* at *Oxford Women in Computer Science*, for leadership and service; Sole undergraduate
- BASIS International Schools** (*High School Diploma with High Honors*), Huizhou, China Sep 2018 - Jun 2022
- Inaugural Global Excellence Student Scholar*: full-ride merit scholarship with living stipend, c. USD 150k
  - SAT 1600/1600; Completed 16 advanced placement (AP), 6 capstone, and 4 honors courses

## RELEVANT EXPERIENCE

- Trading and Risk Management Academy**, *Qube Research & Technologies* (Oxford, UK) Nov 2024 - Present
- Completed four-week intensive course on data, models, risk, portfolios; Design and manage trading algo in teams
- Quantitative Research Internship**, *Chengqi Asset Management* (Shenzhen, China) Sep 2024
- Developed an alpha with Sharpe ratio 2.33 using statistical data analysis and ML feature selection algorithms
  - Expanded 4-feature dataset via transformations and Shapley analysis; Retained top features and generated alphas
  - Customised and optimised 10+ configuration scripts (.xml) to streamline and automate alpha implementation
- Student Research** (College-Funded), *Dept of Computer Science, Uni of Oxford* (Oxford, UK) Jul 2024 - Aug 2024
- Modelled voting power dynamics using the Shapley-Shubik power index in weighted voting systems
  - Analysed decision-making under uncertainty by evaluating coalition probabilities and pivotal voter influence
  - Investigated fairness and efficiency in voting rule design, optimising system robustness and equity
- AI Development Micro-Internship**, *Legal-Pythia* (Remote) Dec 2023
- Tested and implemented large language models with explainable AI to parse and analyse legal databases
- T-Spark Challenge: AI+ Human Hand Liveness Detection**, *Tencent* (Shenzhen, China) Jul 2022 - Aug 2022
- Developed anti-spoofing methods for Palm Payment with gesture recognition, multi-touch analysis, and 3D vision
  - Optimised focus detection using Laplacian Transform to counter screen attacks with reflections and moiré patterns
  - Designed, built, and optimised the user interface, simplifying detection gestures based on user feedback
- T-Spark Challenge: Short-Form Video Recommendation**, *Tencent* (Shenzhen, China) Jul 2021 - Aug 2021
- Optimised recommendation algorithms with neural networks, enhancing engagement through feature engineering
  - Analysed 100k user behaviour records (e.g., click-through rates, swipes) to refine features and enhance targeting
  - Implemented ML architectures (Wide & Deep, GBDT, FCNN); Tuned hyperparameters; Surpassed benchmark
- T-Spark Future Academy**, *Tencent* (Shenzhen, China) Jun 2020 - Oct 2020
- Placed 4th / 1300+; Received Tencent YouTu AI Research Lab internship offer (computer vision, flexible start)
  - Developed a dietary app; Built/optimised a food recognition AI after preprocessing/augmenting a public dataset
- Spring into Tech**, *J.P. Morgan* **Discover**, *Citadel* | *Citadel Securities* **Insight: Trading**, *Jane Street*

## SELECTED VOLUNTEERING

- Demonstrator**, *GirlsWhoML* Dec 2024 - Present
- Undergraduate Representative**, *Oxford Women in Computer Science, Uni of Oxford* May 2024 - Present
- Co-launched inaugural mentorship programme; Organised undergrad dinner for 35; Host fortnightly Sip & Solve
- President** 24-25 (Publicity/IT 23-24), *Maths Undergrad Rep Cmte, Maths Inst, Uni of Oxford* Nov 2023 - Present
- Boosted survey participation by 50%; Reduced scheduling conflicts; Advocated for equitable course access
  - Revamped website and options fair; Secured annotated project examples; Piloted fairer grading algorithms
- JCR IT and Communications Officer**, *Somerville College, Uni of Oxford* Jun 2023 - Nov 2024
- Ran the JCR (undergraduate student body) website and social media; Posted weekly Instagram updates
  - Supported democratic processes for publishing student body statements; Assisted College in crisis communications
- Co-President**, *Somerville Mathematical Society, Somerville College, Uni of Oxford* Aug 2023 - Jul 2024
- Co-organised monthly events for 150+ members; Ran course options Q&A; Promoted maths activities in Oxford
- Lead Curriculum Developer**, *Women Who Code: Data Science* Dec 2023 - Apr 2024
- Developed lesson plans/guides for inaugural mentorship program supporting 50 mentees; Gathered testimonials
  - Hosted and moderated monthly interviews with industry experts

## OLYMPIADS

- Global 12th Place Among Women**, *American Invitational Mathematics Examination (AIME)* Mar 2021
- AMC/AIME score *surpassed USAMO cutoff*, but ineligible for further IMO consideration due to non-U.S. residency
- Distinguished Honor Roll / Top 1%**, *American Mathematics Contest 12 (AMC 12)* Feb 2021
- Global 7th Place**, *American Regions Mathematics League (ARML)* Oct 2020
- Gold Division Placement**, *USA Computing Olympiad (USACO)* Feb 2020

**Programming Languages:** Python (preferred); R, MATLAB, SQL, C++, Java, JavaScript (prior experience);  $\text{\LaTeX}$   
**Natural Languages:** English, Mandarin Chinese (native); Dutch, Cantonese Chinese (elementary)