

Curriculum Vitae

Li, Kwing Hei

November, 2022

Basic Info

Preferred name: Hei Li

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Web: <https://hei411.github.io/>

Research Topics

The very heart of my research interests is programming languages. I develop mathematical models and methods that enable us to design, implement, and reason about computer programs.

At the moment, I am also interested in other related topics, such as formal verification, and the theory of concurrency and distributed systems.

Education

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| 2022 - Now | M.Phil in Advanced Computer Science
King's College, University of Cambridge |
| 2019 - 2022 | B.A. Hons. in Computer Science with Mathematics (1st class)
Churchill College, University of Cambridge
Title: Type Systems for Functional Reactive Programming [pdf] |

Experience

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| 2022 | Research Intern
Max Planck Institute for Software Systems
Supervisor: Prof. Derek Dreyer and Mr. Michael Sammler |
| 2021 | Undergraduate Research Intern
University of Cambridge Machine Learning Systems Lab
Supervisor: Prof. Nicholas Lane and Dr. Pedro Porto Buarque de Gusmao |
| 2020 | Automation Engineer Intern
DreamsAI, Hong Kong |

Roles

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| 2022 - Now | Safety and Welfare Officer
Churchill College Boat Club |
| 2021 - 2022 | Computing Officer
Churchill College JCR Committee |
| 2020 - 2022 | Coxing Captain
Churchill College Boat Club |

Awards

2022	Beatrice Blore-Browne Prize Scholarship
2022	Cambridge Trust and King's College TPP Alan Turing Scholarship
2022	University of Oxford Hong Kong Jockey Club Graduate Scholarship (declined)
2022	Churchill Prize Scholarship
2021	Beatrice Blore-Browne Prize Scholarship
2021	Churchill Prize Scholarship
2021	Churchill Computer Science Talks Series – Audience Favourite Talk
2020	Churchill Honorary Scholarship

Publications

2022	Secure Aggregation for Federated Learning in Flower [pdf] Kwing Hei Li, Pedro Porto Buarque de Gusmão, Daniel J. Beutel, Nicholas D. Lane <i>In DistributedML 2021: Proceedings of the 2nd ACM International Workshop on Distributed Machine Learning</i>
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Unpublished Drafts

2022	Formalizing May's Theorem [pdf] Kwing Hei Li
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