Rebecca Y. E. Lin

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Education

2022-Now	**Massachusetts Institute of Technology** PhD in Computer Science — Advised by Erik Demaine
2017-2022	**University of British Columbia** BSc in Honors Computer Science — Advised by William Evans

Honors

2024	**Postgraduate Scholarship - Doctoral (PGS-D)** Natural Sciences and Engineering Research Council of Canada — 63,000 CAD
2024	**Canada Graduate Scholarship - Doctoral (CGS-D)** — declined Natural Sciences and Engineering Research Council of Canada — 105,000 CAD
2022	**Stata Family Presidential Fellowship** Massachusetts Institute of Technology
2022	**Canada Graduate Scholarship - Masters (CGS-M)** — declined Natural Sciences and Engineering Research Council of Canada — 17,500 CAD
2020, 2021	**Undergraduate Student Research Award** Natural Sciences and Engineering Research Council of Canada - 4,500 & 6,000 CAD
2020, 2021, 2022	**Rick Sample Memorial Award in Computer Science** University of British Columbia — 2,500 & 2,800 & 2,500 CAD
2021	**Undergraduate Research Fellowship** University of Waterloo — 15,000 CAD
2021	**Laura Huber Memorial Award for Women in Video Gaming** Electronic Arts via the University of British Columbia — 10,000 CAD
2021	**Irving K. Barber Women in Technology Scholarship** BC Scholarship Society — 10,000 CAD
2018, 2020	**Trek Excellence Scholarship** University of British Columbia — 1,500 CAD
2018	**Summer Studentship** BC Children's Hospital Research Institute — 4,750 CAD

2018   **Summer Student Research Program**
        University of British Columbia — 2,800 CAD

Grants

2024   CAMIT Graduate Student Seed Grant for *Reconfigurable Sculptures* — 500 USD

2023   CAMIT Grants Committee Funding for *Metallic Kusudamas* — 4,940 USD

Publications

(a) denotes alphabetical ordering, typical in theoretical computer science, and * denotes equal contribution

‣ Conferences

2024   **Graph Threading**
        Erik Demaine, Yael Kirkpatrick, and **Rebecca Lin**
        ITCS 2024

2022   **Detecting Viewer-Perceived Intended Vector Sketch Connectivity**
        Jerry Yin*, Chenxi Liu*, **Rebecca Lin**, Nicholas Vining, Hedge Rhodin, Alla Sheffer
        SIGGRAPH 2022

2022   **The Polygon Burning Problem**
        William Evans and **Rebecca Lin**
        WALCOM 2022

‣ Preprints

2024   **Graph Threading with Turn Costs**
        Erik Demaine, Yael Kirkpatrick, and **Rebecca Lin**

2023   **Learning Lens Blur Fields**
        Esther Y. H. Lin, Zhecheng Wang, **Rebecca Lin**, Daniel Miau, Florian Kainz, Jiawen
        Chen, Cecilia Zhang, David B. Lindell, Kiriakos N. Kutulakos

2023   **Freeform Islamic Geometric Patterns**
        Rebecca Lin and Craig Kaplan

Experience

‣ Research

2024   **Adobe Research**
        Research Scientist Intern — Mentored by Mackenzie Leake

2023	**University of Tokyo**
	Visiting Researcher — Hosted by Tomohiro Tachi
2020-2022	**University of British Columbia**
	Undergraduate Researcher — Advised by Will Evans, Nick Harvey, Alla Sheffer
2021	**University of Waterloo**
	Undergraduate Researcher — Advised by Craig Kaplan

‣ Industry

2019, 2020	**Microsoft**
	Software Engineering Intern
2019	**Cisco Systems**
	Cloud Infrastructure Engineering Intern

‣ Teaching

Spring 2024	**MIT: 6.1220 Design & Analysis of Algorithms**
	Graduate Teaching Assistant — 20 hrs/week
Fall 2023	**MIT: 6.1001 Fundamentals of Programming**
	Graduate Teaching Assistant — 20 hrs/week
Summer 2021	**UBC: CPSC 320 Intermediate Algorithm Design & Analysis**
	Undergraduate Teaching Assistant — 12 hrs/week
Fall 2020	**UBC: CPSC 221 Basic Algorithms & Data Structures**
	Undergraduate Teaching Assistant — 12 hrs/week

Outreach

2022-2023	Organizer & Mentor, MIT EECS Graduate Application Assistant Program
2022	Mentor, SIGGRAPH Undergraduate Mentorship Program
2020-2023	Youth Instructor, City Center Community Center
2017	Barbara Brink Intern, Science World British Columbia

Service

(Sub)reviewer for FUN 2024, WALCOM 2023, and CCCG 2022.