Rebecca Y. E. Lin

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Education

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

Experience

‣ Research

2024-Now	**MIT Media Lab**
	Graduate Research Assistant
	Advisor: Zach Lieberman
2022-Now	**MIT CSAIL**
	Graduate Research Assistant
	Advisor: Erik Demaine
2024	**Adobe Research**
	Research Scientist Intern
	Mentor: Mackenzie Leake
2023	**University of Tokyo**
	Visiting Researcher
	Mentor: Tomohiro Tachi
2020-2022	**University of British Columbia**
	Undergraduate Researcher:
	Advisors: William Evans, Nicholas Harvey, and Alla Sheffer
2021	**University of Waterloo**
	Undergraduate Researcher
	Advisor: Craig Kaplan

‣ Industry

2020	**Microsoft**
	Software Engineering Intern
2019	**Microsoft**
	Software Engineering Intern

2019	**Cisco Systems**
	Cloud Infrastructure Engineering Intern

‣ Teaching

Fall 2024	**MIT: 6.1220 Design & Analysis of Algorithms**
	Graduate Teaching Assistant — 20 hrs/week
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

Honors

2024-2027	**Postgraduate Scholarship - Doctoral (PGS-D)**	*120,000 CAD*
	Natural Sciences and Engineering Research Council of Canada	
2024-2027	**Canada Graduate Scholarship - Doctoral (CGS-D)** — *declined*	*120,000 CAD*
	Natural Sciences and Engineering Research Council of Canada	
2022	**Stata Family Presidential Fellowship**	*full tuition*
	Massachusetts Institute of Technology	*& stipend*
2022	**Canada Graduate Scholarship - Masters (CGS-M)** — *declined*	*17,500 CAD*
	Natural Sciences and Engineering Research Council of Canada	
2020	**Undergraduate Student Research Award**	*4,500 CAD*
2021	Natural Sciences and Engineering Research Council of Canada	*6,000 CAD*
2020	**Rick Sample Memorial Award in Computer Science**	*2,500 CAD*
2021	University of British Columbia	*2,800 CAD*
2022		*2,500 CAD*
2021	**Undergraduate Research Fellowship**	*15,000 CAD*
	University of Waterloo	
2021	**Laura Huber Memorial Award for Women in Video Gaming**	*10,000 CAD*
	Electronic Arts via the University of British Columbia	
2021	**Irving K. Barber Women in Technology Scholarship**	*10,000 CAD*
	BC Scholarship Society	
2018, 2020	**Trek Excellence Scholarship**	*1,500 CAD*
	University of British Columbia	
2018	**Summer Studentship**	*4,750 CAD*
	BC Children's Hospital Research Institute	

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

Publications

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

‣ Journals

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

‣ Conferences

2024   **Graph Threading**
        (α) Erik D. Demaine, Yael Kirkpatrick, **Rebecca Lin**
        ITCS 2024

2022   **The Polygon Burning Problem**
        (α) William Evans, **Rebecca Lin**
        WALCOM 2022

‣ Preprints

2024   **Graph Threading with Turn Costs**
        (α) Erik D. Demaine, Yael Kirkpatrick, 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

‣ Miscellaneous

2024   **Folding One Polyhedral Metric Graph into Another**
        (α) Erik D. Demaine, Martin L. Demaine, Markus Hecher, **Rebecca Lin**, Jayson Lynch, Chie Nara
        JCDCG^3 — Abstract

2024   **Continuous Flattening of Convex Polyhedral Linkages**
        (α) Erik D. Demaine, Martin L. Demaine, Markus Hecher, **Rebecca Lin**, Victor H. Luo, Chie Nara
        JCDCG^3 — Abstract

2024   **Routing Reconfigurations**
        Rebecca Lin, Wenzhong Yan, Ankur Mehta, Erik D. Demaine
        SCF 2024 — Demo

Grants

2024	MIT Design to Making Mini-Grant for *Modular and Reconfigurable Garments* — 500 USD
2024	CAMIT Graduate Student Seed Grant for *Reconfigurable Sculptures* — 500 USD
2023	CAMIT Grants Committee Funding for *Metallic Kusudamas* — 4,940 USD

Outreach

2024-2025	**MIT EECS Committee on Diversity, Equity, and Inclusion:** Member
2022-2023	**MIT EECS Graduate Application Assistant Program:** Organizer & Mentor
2022	**SIGGRAPH Undergraduate Mentorship Program:** Mentor
2020-2022	**City Center Community Center:** Youth Instructor
2017	**Science World British Columbia:** Barbara Brink Intern

Mentorship

2024	Pooria Jalali Farahani and Saba Molaei, Sharif University of Technology
2023	Cindy Zhang, MIT

Service

Reviewed for FUN 2024, WALCOM 2023, and CCCG 2022.