

Chi Ho YUEN

CONTACT INFORMATION	Division of Applied Math, Room 310 Brown University, 182 George Street Providence, RI 02912, USA	(+1) 401-863-7422 Chi_Ho_Yuen@Brown.edu https://yuenchiho.github.io/
EMPLOYMENT	2019 – current 2018 – 2019	Brown University Croucher Postdoctoral Fellow University of Bern Postdoctoral Researcher
EDUCATION	2012 – 2018 2008 – 2012	Georgia Institute of Technology Ph.D. in Algorithms, Combinatorics, and Optimization Advisor: Matthew Baker Thesis: Geometric Bijections of Graphs and Regular Matroids Minor: Algorithms with Randomness The Chinese University of Hong Kong B.Sc. in Mathematics (First Class Honor) B.Eng. in Information Engineering (First Class Honor)
PUBLICATIONS	<p>Oriented Matroids from Triangulations of Products of Simplices. With Marcel Celaya and Georg Loho. Submitted. Preprint available at https://arxiv.org/abs/2005.01787/.</p> <p>Patchworking Oriented Matroids. With Marcel Celaya and Georg Loho. Submitted. Preprint available at https://arxiv.org/abs/2010.12018/.</p> <p>The Dimension of an Amoeba. With Jan Draisma and Johannes Rau. <i>Bulletin of the London Mathematical Society</i> 52, 16–23, 2020.</p> <p>Topological Bijections for Oriented Matroids. With Spencer Backman and Francisco Santos. <i>Séminaire Lotharingien de Combinatoire</i> 82B, Art. 39, 12 pp, 2020.</p> <p>On the Number of Circuit-cocircuit Reversal Classes of an Oriented Matroid. With Emeric Gioan. <i>Discrete Mathematics</i> 342, 1056–1059, 2019.</p> <p>Geometric Bijections for Regular Matroids, Zonotopes, and Ehrhart Theory. With Spencer Backman and Matthew Baker. <i>Forum of Mathematics, Sigma</i> 7, e45, 2019.</p> <p>Geometric Bijections Between Spanning Trees and Break Divisors. <i>Journal of Combinatorial Theory, Series A</i> 152, 159–189, 2017.</p>	
SELECTED HONORS, AWARDS AND SCHOLARSHIPS	2019 – 2021 2018 – 2019 Spring 2018 Summer 2011	Croucher Fellowship for Postdoctoral Research Georgia Tech School of Mathematics Best PhD Thesis Award Institut Mittag-Leffler Fellowship Caltech – Hong Kong Undergraduate Research Fellowship

SELECTED TALKS	Oriented Matroids from Triangulations of Products of Simplices
	AMS Fall Central Sectional Meeting, Special Session on Algebraic, Geometric & Topological Combinatorics. (September 2020)
	InterCity (Neuchâtel–Fribourg–Bern) Seminar. (February 2020)
	The Dimension of an Amoeba
	Scandinavian Gathering Around Remarkable Discrete Mathematics. (May 2019)
	Georgia Tech Algebra Seminar. (January 2019)
	Geometric Bijections of Graphs and Regular Matroids
	CIRM Workshop on Combinatorial Geometries. (September 2018)
	Institut Mittag-Leffler Seminar. (February 2018)
	MIT Combinatorics Seminar. (October 2017)
	Atlanta Lecture Series in Combinatorics and Graph Theory. (September 2017)
	Brown University Discrete Math Seminar. (May 2017)
	BIRS–CMO Workshop on Sandpile Groups. (November 2015)
	Cornell Combinatorics and Discrete Geometry Seminar. (April 2015)
MENTORING EXPERIENCES	At Brown University
	2020–2021 Senior Honor Thesis of Nathan Zelesko (Co-advising with Melody Chan)
TEACHING EXPERIENCES	Assistant at University of Bern
	Spring 19 Algorithms in Algebra
	Fall 18 Mathematik I für Naturwissenschaften
	Fall 18 Seminar: Tensors, Geometry and Applications
	Instructor at Georgia Tech
	Summer 18 Introduction to Discrete Mathematics
	Fall 16 Grad Level Graph Theory (Co-lecturing with Robin Thomas)
	Teaching Assistant at Georgia Tech
	Fall 17 Introduction to Discrete Mathematics
	Fall 16 Linear Algebra with Abstract Vector Spaces
	Fall 15 Introduction to Discrete Mathematics
	Fall 14 Honors Calculus II
	Fall 13 Calculus II
	Fall 12 Calculus III
	Other Teaching
	Summer 14 Towards Diff. Geometry (Head Tutor of EPYMT at CUHK)
OTHER SERVICES	Referee for <i>PNAS</i> , <i>Forum of Mathematics</i> , <i>Sigma</i> , <i>Journal of Combinatorial Theory, Series A</i> , <i>Combinatorica</i> , <i>Algebraic Combinatorics</i> , <i>European Journal of Combinatorics</i> , <i>Electronic Journal of Combinatorics</i> , <i>Discrete Mathematics</i> , <i>Discrete Applied Mathematics</i> , and <i>FPSAC International Conference</i> .
	Co-organizer of the minisymposium <i>Chip-firing and Tropical Curves</i> at the SIAM Conference on Applied Algebraic Geometry 2019.
	Coordinator of the 57th International Mathematical Olympiad.