

## Chi Ho YUEN

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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 <a href="https://yuenchiho.github.io/">https://yuenchiho.github.io/</a>
EMPLOYMENT	2019 – current 2018 – 2019	<b>Brown University</b> Croucher Postdoctoral Fellow <b>University of Bern</b> Postdoctoral Researcher
EDUCATION	2012 – 2018 2008 – 2012	<b>Georgia Institute of Technology</b> Ph.D. in Algorithms, Combinatorics, and Optimization Advisor: Matthew Baker Thesis: Geometric Bijections of Graphs and Regular Matroids Minor: Algorithms with Randomness <b>The Chinese University of Hong Kong</b> 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 Celeya and Georg Loho. Submitted. Preprint available at <a href="https://arxiv.org/abs/2005.01787/">https://arxiv.org/abs/2005.01787/</a>.</p> <p>Patchworking Oriented Matroids. With Marcel Celeya and Georg Loho. Submitted. Preprint available at <a href="https://arxiv.org/abs/2010.12018/">https://arxiv.org/abs/2010.12018/</a>.</p> <p>The Dimension of an Amoeba. With Jan Draisma and Johannes Rau. <i>Bulletin of the London Mathematical Society</i> <b>52</b>, 16–23, 2020.</p> <p>Topological Bijections for Oriented Matroids. With Spencer Backman and Francisco Santos. <i>Séminaire Lotharingien de Combinatoire</i> <b>82B</b>, 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> <b>342</b>, 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> <b>7</b>, e45, 2019.</p> <p>Geometric Bijections Between Spanning Trees and Break Divisors. <i>Journal of Combinatorial Theory, Series A</i> <b>152</b>, 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	<b>Oriented Matroids from Triangulations of Products of Simplices</b>
	AMS Fall Central Sectional Meeting, Special Session on Algebraic, Geometric & Topological Combinatorics. (September 2020)
	InterCity (Neuchâtel–Fribourg–Bern) Seminar. (February 2020)
	<b>The Dimension of an Amoeba</b>
	Scandinavian Gathering Around Remarkable Discrete Mathematics. (May 2019)
	Georgia Tech Algebra Seminar. (January 2019)
	<b>Geometric Bijections of Graphs and Regular Matroids</b>
	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	<b>At Brown University</b>
	2020–2021     Senior Honor Thesis of Nathan Zelesko (Co-advising with Melody Chan)
TEACHING EXPERIENCES	<b>Assistant at University of Bern</b>
	Spring 19     Algorithms in Algebra
	Fall 18        Mathematik I für Naturwissenschaften
	Fall 18        Seminar: Tensors, Geometry and Applications
	<b>Instructor at Georgia Tech</b>
	Summer 18    Introduction to Discrete Mathematics
	Fall 16        Grad Level Graph Theory (Co-lecturing with Robin Thomas)
	<b>Teaching Assistant at Georgia Tech</b>
	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
	<b>Other Teaching</b>
	Summer 14    Towards Diff. Geometry (Head Tutor of EPYMT at CUHK)
OTHER SERVICES	Referee for <i>PNAS</i> , <i>Journal of Combinatorial Theory, Series A</i> , <i>Combinatorica</i> , <i>Algebraic Combinatorics</i> , <i>Journal of 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.