

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://mathsites.unibe.ch/cyuen/
EMPLOYMENT	2019 – current 2018 – 2019	Brown University Postdoctoral Research Associate 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	The Dimension of an Amoeba. With Jan Draisma and Johannes Rau. To appear in <i>Bulletin of the London Mathematical Society</i> . Topological Bijections for Oriented Matroids. With Spencer Backman and Francisco Santos. In preparation; extended abstract accepted for contributed poster at FPSAC 2019. On the Number of Circuit-cocircuit Reversal Classes of an Oriented Matroid. With Emeric Gioan. <i>Discrete Mathematics</i> 342 , 1056–1059, 2019. Geometric Bijections for Regular Matroids, Zonotopes, and Ehrhart Theory. With Spencer Backman and Matthew Baker. <i>Forum of Mathematics, Sigma</i> 7 , e45, 2019. Extended abstract accepted for contributed talk at FPSAC 2018. Geometric Bijections Between Spanning Trees and Break Divisors. <i>Journal of Combinatorial Theory, Series A</i> 152 , 159–189, 2017.	
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	Scandinavian Gathering Around Remarkable Discrete Mathematics. (May 2019) <i>The Dimension of an Amoeba</i> CIRM Workshop on Combinatorial Geometries. (September 2018) <i>More on Geometric Bijections and Circuit-cocircuit Reversal Systems</i>	

Institut Mittag-Leffler Seminar. (February 2018)
The Combinatorics of Break Divisors

MIT Combinatorics Seminar. (October 2017)
Spanning Trees and Geometric Bijections

Atlanta Lecture Series in Combinatorics and Graph Theory. (September 2017)
The Circuit-cocircuit Reversal System of an Oriented Matroid

Brown University Discrete Math Seminar. (May 2017)
Spanning Trees and Geometric Bijections

BIRS-CMO Workshop on Sandpile Groups. (November 2015)
Geometric Bijections Between Spanning Trees and Break Divisors

Cornell Combinatorics and Discrete Geomtry Seminar. (April 2015)
Geometric Bijections Between Spanning Trees and Break Divisors

TEACHING EXPERIENCES

Spring 2019	Algorithms in Algebra (Assistant at University of Bern)
Fall 2018	Mathematik I für Naturwissenschaften (Assistant at University of Bern)
Fall 2018	Seminar: Tensors, Geometry and Applications (Assistant at University of Bern)
Summer 2018	Math 2603 Introduction to Discrete Mathematics (Lead Instructor at Georgia Tech)
Fall 2017	Math 2603 Introduction to Discrete Mathematics (Teaching Assistant at Georgia Tech)
Fall 2016	Math 6014 Graduate Level Graph Theory (Co-lecturing with Robin Thomas at Georgia Tech)
Fall 2016	Math 1564 Linear Algebra with Abstract Vector Spaces (Teaching Assistant at Georgia Tech)
Fall 2015	Math 2603 Introduction to Discrete Mathematics (Teaching Assistant at Georgia Tech)
Fall 2014	Math 1512 Honors Calculus II (Teaching Assistant at Georgia Tech)
Summer 2014	SAYT 1134 Towards Differential Geometry (Head Tutor for EPYMT at CUHK)
Fall 2013	Math 1502 Calculus II (Teaching Assistant at Georgia Tech)
Fall 2012	Math 2401 Calculus III (Teaching Assistant at Georgia Tech)

OTHER SERVICES

Referee for *PNAS*, *Journal of Combinatorial Theory, Series A*, *Algebraic Combinatorics*, *Journal of Algebraic Combinatorics*, *European Journal of Combinatorics*, *Electronic Journal of Combinatorics*, *Discrete Mathematics*, *Discrete Applied Mathematics*, and *FPSAC International Conference*.

Co-organizer of the minisymposium *Chip-firing and Tropical Curves* at the SIAM Conference on Applied Algebraic Geometry 2019.

Coordinator of the 57th International Mathematical Olympiad.