

## Chi Ho YUEN

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CONTACT INFORMATION	Institute of Mathematics, Room 112 University of Bern, Alpeneggstrasse 22 3012 Bern, Switzerland	(+41) 31 631 51 80 chi.yuen@math.unibe.ch <a href="https://mathsites.unibe.ch/cyuen/">https://mathsites.unibe.ch/cyuen/</a>
EMPLOYMENT	2018 – current	<b>University of Bern</b> Postdoctoral Researcher
EDUCATION	2012 – 2018	<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
	2008 – 2012	<b>The Chinese University of Hong Kong</b> 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> <b>342</b> , 1056–1059, 2019.	
	Geometric Bijections for Regular Matroids, Zonotopes, and Ehrhart Theory. With Spencer Backman and Matthew Baker. To appear in <i>Forum of Mathematics, Sigma</i> ; 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> <b>152</b> , 159–189, 2017.	
SELECTED HONORS, AWARDS AND SCHOLARSHIPS	2019 – 2021	Croucher Fellowship for Postdoctoral Research
	2018 – 2019	Georgia Tech School of Mathematics Best PhD Thesis Award
	Spring 2018	Institut Mittag-Leffler Fellowship
	2012 – 2013	Georgia Tech ACO Student Fellowship
	Summer 2011	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.