### Chi Ho YUEN

CONTACT INFORMATION		els hus, Room 1107 lo, Moltke Moes vei 35 ay	chihy@math.uio.no https://yuenchiho.github.io/
EMPLOYMENT	2021 – current	University of Oslo	
	0010 0001	Postdoctoral Fellow	
	2019 - 2021	Brown University Croucher Postdoctoral	Follow
	2018 - 2019	University of Bern	renow
	2010 2010	Postdoctoral Researche	er
EDUCATION	2012 - 2018	Advisor: Matthew Bak	Combinatorics, and Optimization ter ections of Graphs and Regular Matroids
	2008 - 2012	The Chinese Universit	
	2000 2012	B.Sc. in Mathematics (	
		`	Engineering (First Class Honor)
Publications	Eigenvalues and Critical Groups of Adinkras.		

With Kevin Iga, Caroline Klivans, and Jordan Kostiuk.

Submitted. Preprint available at https://arxiv.org/abs/2202.02821/.

Critical Groups of Strongly Regular Graphs and Their Generalizations.

With Kenneth Hung.

Innovations in Incidence Geometry: Algebraic, Topological and Combinatorial 19, 95-109, 2022.

Oriented Matroids from Triangulations of Products of Simplices.

With Marcel Celaya and Georg Loho.

Submitted. Preprint available at https://arxiv.org/abs/2005.01787/.

Patchworking Oriented Matroids.

With Marcel Celaya and Georg Loho.

Accepted by Journal of the London Mathematical Society.

The Dimension of an Amoeba.

With Jan Draisma and Johannes Rau.

Bulletin of the London Mathematical Society 52, 16–23, 2020.

Topological Bijections for Oriented Matroids.

With Spencer Backman and Francisco Santos.

Séminaire Lotharingien de Combinatoire 82B, Art. 39, 12 pp, 2020.

On the Number of Circuit-cocircuit Reversal Classes of an Oriented Matroid.

With Emeric Gioan.

Discrete Mathematics **342**, 1056–1059, 2019.

Geometric Bijections for Regular Matroids, Zonotopes, and Ehrhart Theory.

With Spencer Backman and Matthew Baker.

Forum of Mathematics, Sigma 7, e45, 2019.

Geometric Bijections Between Spanning Trees and Break Divisors.

Journal of Combinatorial Theory, Series A 152, 159–189, 2017.

SELECTED HONORS,	2019 - 2021	Croucher Fellowship for Postdoctoral Research
Awards and	2018 - 2019	Georgia Tech School of Mathematics Best PhD Thesis Award
SCHOLARSHIPS	Spring 2018	Institut Mittag-Leffler Fellowship
	Summer 2011	Caltech – Hong Kong Undergraduate Research Fellowship

#### Selected Talks The Critical Groups of Adinkras

Brandeis Combinatorics Seminar. (November 2021)

## Oriented Matroids from Triangulations of Products of Simplices

CAS Workshop on Real Structures in Geometry. (August 2021)

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 Geomtry Seminar. (April 2015)

Mentoring	At Brown University		
EXPERIENCES	2020 – 2021	Senior Honor Thesis of Nathan Zelesko (Co-advising with Melody Chan)	
TEACHING EXPERIENCES	Lecturer at University of Oslo		
	Spring 22	Groups, Rings and Fields (Co-lecturing with Kris Shaw)	
	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		

Towards Diff. Geometry (Head Tutor of EPYMT at CUHK)

#### OTHER SERVICES

Referee for PNAS, Forum of Mathematics, Sigma, Combinatorial Theory, Combinatorica, Algebraic Combinatorics, European Journal of Combinatorics, Electronic Journal of Combinatorics, Discrete Mathematics, Discrete Applied Mathematics, and FPSAC International Conference.

Committee Member of the Major Exam of Changxin Ding (Brandeis, 2021).

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.