Chi Ho YUEN

CONTACT INFORMATION	Dept. of Applied Mather Science Bld. 1, NYCU 1001 Daxue Rd., East D Hsinchu City 30009, Tai	https://yuenchiho.github.io/	
EMPLOYMENT		onal Yang Ming Chiao Tung University istant Professor (Tenure-track)	
	11/23 - 01/24 Univ	ersity of Copenhagen tdoctoral Researcher	
	2021 – 2023 Univ	ersity of Oslo tdoctoral Researcher	
	2019 – 2021 Brow	n University oucher Postdoctoral Fellow	
	2018 – 2019 Univ	ersity of Bern tdoctoral Researcher	
EDUCATION	Ph.I Adv Thee Min 2008 – 2012 The C B.Sc	a Institute of Technology . in Algorithms, Combinatorics, and Optimization sor: Matthew Baker is: Geometric Bijections of Graphs and Regular Matroids r: Algorithms with Randomness hinese University of Hong Kong in Mathematics (First Class Honor) g. in Information Engineering (First Class Honor)	
Publications	The Amoeba Dimension of a Linear Space. With Jan Draisma, Sarah Eggleston, Rudi Pendavingh, and Johannes Rau. Accepted by <i>Proceedings of the American Mathematical Society</i> .		
	Critical Groups of Adinkras up to 2-Rank of Cayley Graphs. Accepted by <i>Electronic Journal of Combinatorics</i> .		
	Sandpile Groups of Cayley Graphs of \mathbb{F}_2^r . With Jiyang Gao, Jared Marx-Kuo, and Vaughan McDonald. Submitted. Preprint available at arXiv:1912.06919.		
	Eigenvalues and Critical Groups of Adinkras. With Kevin Iga, Caroline Klivans, and Jordan Kostiuk		

With Kevin Iga, Caroline Klivans, and Jordan Kostiuk.

Advances in Applied Mathematics 143, Paper No. 102450, 2023.

Critical Groups of Strongly Regular Graphs and Their Generalizations.

With Kenneth Hung.

 $Innovations\ in\ Incidence\ Geometry:\ Algebraic,\ Topological\ and\ Combinatorial\ {\bf 19},\ 95-109,\ 2022.$

Oriented Matroids from Triangulations of Products of Simplices.

With Marcel Celaya and Georg Loho. Accepted by $Selecta\ Mathematica$.

 ${\bf Patchworking\ Oriented\ Matroids.}$

With Marcel Celaya and Georg Loho.

Journal of the London Mathematical Society 106, 3545–3576, 2022.

The Dimension of an Amoeba.

With Jan Draisma and Johannes Rau.

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

Extension-lifting Bijections Bijections for Oriented Matroids.

With Spencer Backman and Francisco Santos.

Submitted. Preprint available at arXiv:1904.03562. Extended abstract accepted by FPSAC 2019.

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, 37pp, 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

Filtrations of Tope Spaces of Oriented Matroids

MIT-Harvard Combinatorics Seminar. (September 2023)

QMUL Workshop on Matroids and Tropical Combinatorics. (January 2023)

KTH Combinatorics Seminar. (November 2022)

The Critical Groups of Adinkras

Brandeis Combinatorics Seminar. (November 2021)

Oriented Matroids from Triangulations of Products of Simplices

BIRS Workshop on Algebraic Aspects of Matroid Theory. (March 2023)

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

AMS Sectional Meeting, Special Session on Algebraic, Geometric & Topological Combinatorics. (September 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 University of Oslo

EXPERIENCES Spring 23 Undergraduate Project (MAT2000) of Trond Skaret Johansen

At Brown University

2020–2021 Senior Honor Thesis of Nathan Zelesko (Co-advising with Melody Chan)

Teaching Lecturer at NYCU

EXPERIENCES Spring 24 Calculus A (II)

Spring 24 Discrete Mathematics

Lecturer at University of Copenhagen

Block 2 23-24 Invitation to Combinatorics

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

Lead 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 PNAS, Forum of Mathematics, Sigma, Journal of the LMS, SIAM Journal on Applied Algebra and Geometry, Combinatorial Theory, Combinatorica, Algebraic Combinatorics, European Journal of Combinatorics, Electronic Journal of Combinatorics, Discrete Mathematics, Discrete Applied Mathematics, and FPSAC International Conference.

Co-organizer of the first MaP-Trop seminar series at KTH and UiO (Jan 2024).

Co-organizer of the minisymposium Chip-firing and Tropical Curves at SIAMAG 19.

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

Coordinator of the 57th International Mathematical Olympiad.