Chi Ho YUEN

CONTACT INFORMATION	Niels Henrik Abels hus, Room 1107 University of Oslo, Moltke Moes vei 35 0851 Oslo, Norway		chihy@math.uio.no https://yuenchiho.github.io/
EMPLOYMENT	2021 - current 2019 - 2021 2018 - 2019	University of Oslo Postdoctoral Fellow Brown University Croucher Postdoctoral University of Bern	
EDUCATION	2012 - 2018 2008 - 2012	Postdoctoral Researcher 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

Eigenvalues and Critical Groups of Adinkras.

With Kevin Iga, Caroline Klivans, and Jordan Kostiuk.

Accepted by Advances in Applied Mathematics.

Sandpile Groups of Cayley Graphs of \mathbb{F}_2^r .

With Jiyang Gao, Jared Marx-Kuo, and Vaughan McDonald.

Submitted. Preprint available at https://arxiv.org/abs/1912.06919/.

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, 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 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 Lecturer at University of Oslo

EXPERIENCES 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

Todoming Treested at a confidence			
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, 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.