

# RANDOM BITS

CHRISTMAS EDITION

19 DECEMBER, 2025

## DEAR MEMBERS & FRIENDS OF THE SFB,

As the year is drawing to a close, we would like to present the very first edition of Random Bits, our research group's newsletter. We plan to publish it twice a year. In this edition, we would like to share some of the highlights of 2025!



## AN EVENTFUL YEAR

In our reading groups, we covered bijections of planar maps at TU Wien, matchings at TU Graz and dimers in our last sessions of the year at Uni Wien.

Our biggest event yet was Summer School 2025. Held at the picturesque Villa Dermuth by Austria's stunning Wörther Lake, we were joined by over 40 participants who got stuck into planar maps, Markov chain mixing and random domino tilings.

In 2026, you can look forward to the ESI Thematic Program "Statistical Mechanics and Combinatorics of Discrete Planar Structures". Don't forget to register your interest before Spring 2026.

[REGISTER FOR ESI HERE](#)



## WELCOMING OUR NEW MEMBERS

We said good-bye to Seamus Albion and welcomed two new members this year. Say hello to Harry Giles, who joined us from University of Warwick, and Orphée Collin, who bid adieu to Université Paris Cité. We're delighted to have them on the team and look forward to working closely together in the coming year!



## WE'VE BEEN BUSY!

This year, Random Structures team members published a total of 5 articles and 28 preprints. Browse our publications of 2025 below.

A Bijective Look at Gapfree Partitions: Between Local and global (Chern et al.)

[Read the paper](#)

A Generalization of Conjugation of Integer Partitions (Albion et al.)

[Read the paper](#)

Bootstrap Percolation on the High-Dimensional Hamming Graph (Kang et al.)

[Read the paper](#)

A Probabilistic Proof of Euler's Pentagonal Number Theorem (Chern)

[Read the paper](#)

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## WE LAUNCHED INTO THE SOCIALSPHERE

In April, we officially launched our social media channels. If you want to see what we have been up to, give us a follow on your channel of choice.

As the group's SciComm Manager, I would like to extend a big thank you to you all for being so gracious about my constant recording of all group events. I have particularly enjoyed interviewing group members for their profiles. It has been a joy to get to know all of you this past year!

MERRY CHRISTMAS AND A HAPPY NEW YEAR!