

BAMA 5

School Year 2014–2015
Join us for a free talk...

Federico Ardila

Tilings in Combinatorics, Algebra, and Geometry



Santa Clara University, Daly Science 207
Wednesday, March 4, 2015, 7:30 pm

We will discuss tiling problems, where we seek to tile a region with a given set of pieces.

We will address the following questions:

- Does a tiling exist? - How many tilings are there? - What does a typical tiling look like?

Tilings are the starting point for many beautiful problems, surprising results, and unexpected connections with problems in algebra, geometry, number theory, and physics. This talk will present a colorful selection of examples.

Federico Ardila received his Ph.D. from MIT and he is a faculty member at San Francisco State University and the Universidad de Los Andes in his native Colombia. He studies objects in algebra, geometry, topology, and applications by understanding their underlying combinatorial structure. He received the National Science Foundation CAREER Award and is Editor-in-Chief of the Journal of Combinatorial Theory, Series A.

Federico is strongly committed to helping build an increasingly diverse community of mathematicians. With that goal, he started the SFSU-Colombia Combinatorics Initiative, and hosts over 200 combinatorics lectures on YouTube. He served on many International Mathematical Olympiads, most recently as Problem Selection Committee Chairman.

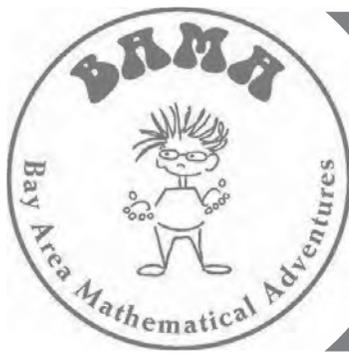
When he is not at work, you might find him on the soccer field, or treasure hunting in little record stores and sharing what he's found with La Pelanga DJ Collective.



* See back for map and directions.

Visit the Bay Area Mathematical Adventures (BAMA) at <http://mathematicaladventures.org>

To receive email notifications about BAMA talks, please contact Frank Farris at ffarris@scu.edu.



BAMA

Bay Area Mathematical Adventures

A series of presentations on diverse topics by remarkable mathematicians. All talks are free and open to the public.

WHY?

BAMA aims to challenge and motivate students to think mathematically. Speakers will present real mathematics, and will share with the audience modern views of mathematics. Some talks will provide students with related problems, or will enable teachers to expand later on the topics with their students.

WHO?

BAMA is aimed at bright high-school age students. However, all are welcome: younger or older students, teachers, parents, and the general public.

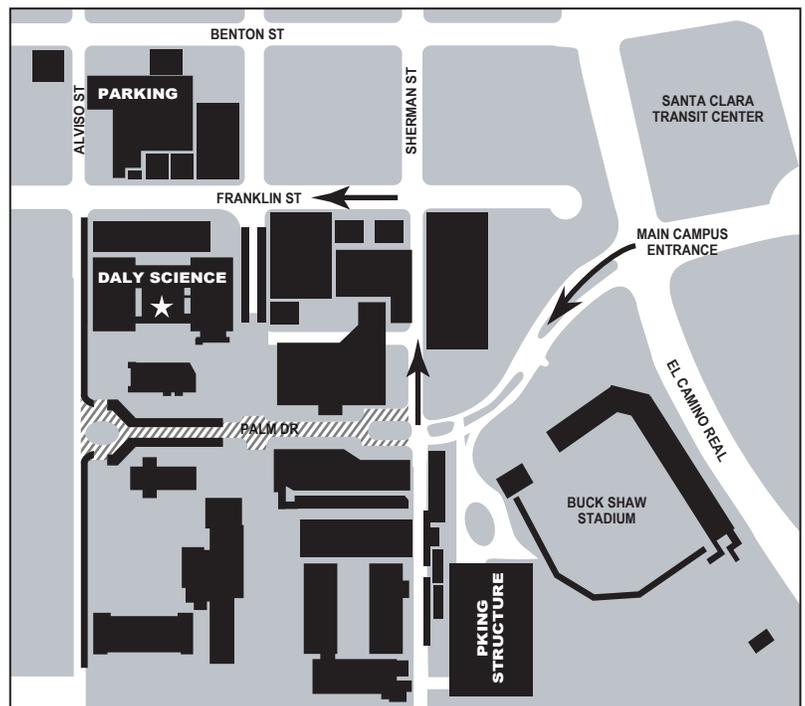
WHEN?

Evening talks will be given approximately once a month between September and April. Each talk will be self-contained (speakers will not assume their audiences have attended previous talks).

WHERE?

Santa Clara University Daly Science, rm. 207

- From US Highway 101, take the De La Cruz Blvd/Santa Clara exit and follow the signs to El Camino real and main campus entrance.
 - From I-280, take I-880 north toward Oakland to The Alameda exit. Turn left onto The Alameda (which becomes El Camino Real) to main campus entrance.
 - From I-880, take The Alameda exit, travel north (The Alameda becomes El Camino Real) to main campus entrance.
- Note:* If you arrive by car, you can go directly to the parking garage at Franklin and Alviso and purchase a permit at a self-serve kiosk. Alternatively, you may enter a special code (available at our website) into the machine and the SCU Department of Mathematics and Computer Science will pay for your parking! Either way, you must display a valid permit on your dash.
- If you have a disability and require reasonable accommodation, please call anyone on the steering committee, or 1-800-735-2929 (TTY—California Relay) 24 hours in advance.



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FOR MORE INFO:

<http://www.mathematicaladventures.org>

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