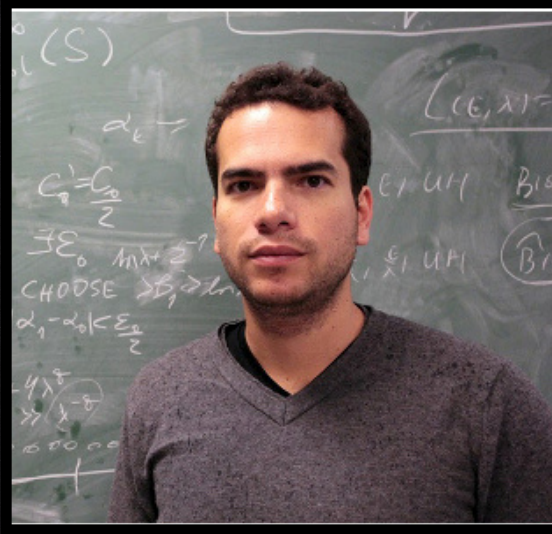


MATHEMATICIAN & PROFESSOR

ARTUR AVILA

"MATHEMATICAL
THINKING IS
CRUCIAL AND
GOES BEYOND
WHAT'S TAUGHT
IN CLASS."



Pronunciation: (ar-tour A-vee-la)

Life: 1979 - present

Location: Rio de Janeiro, Brazil

Known for: Solving complex math problems

MATH HERO

Artur uses math to:

- Work in groups to learn from others how to solve complex problems.
- Understand non-typical behavior ("chaos"). An example of chaos is a ball hitting the sides of a billiards table. A graph of the bouncing ball looks like a pentagon. Artur graphs and compares the pentagons of different balls in search of a pattern.

Fun fact: Artur enjoys thinking about very hard problems while walking along the beach.

BRAZILIAN MATH GENIUS

- Artur Avila is a mathematician and professor. A mathematician creates new ideas about math and tests them.
- Artur uses math to study systems that change over time. Artur writes a rule that describes the frequency of a behavior. Artur will graph the rule's behavior for months to determine if he must change his rule based on what he observes.
- Artur enjoys solving big mathematical problems that others are afraid to try. He is an award-winning mathematician.
- Artur lives in Rio de Janeiro, Brazil and Paris, France.

REFERENCES

- Lin, T. & Klarreich (2014). A Brazilian Wunderkind Who Calms Chaos. Quanta Magazine. <https://www.quantamagazine.org/artur-avila-is-first-brazilian-mathematician-to-win-fields-medal-20140812/>
- Quanta Magazine. (2015, June 12). Artur Avila: A Brazilian Wunderkind Who Calms Chaos. YouTube. <https://www.youtube.com/watch?v=wt6VGpgcSJk>