

Let's talk about outreach!



Report of Contributions

Contribution ID: 22

Type: **not specified**

A Decade of MoMath: TENacity, InTENSity, PoTENTIAL

Tuesday, October 25, 2022 9:00 AM (1h 15m)

Presenter: LAWRENCE, Cindy (MoMath)

Contribution ID: 23

Type: **not specified**

Creation, interaction and participation in mathematics communication

Monday, October 24, 2022 10:45 AM (1h 15m)

In my talk, I take you along on a grand tour of interactive tools and programs that we have developed within IMAGINARY in the last 15 years. IMAGINARY is a non-profit organization with a focus on creating participatory formats of communicating mathematics together with an international community. We will experiment and play together with many examples of “explorables”, “games”, “sandbox tools” or “collaborative challenges” that invite a wide audience to interact with different types of mathematics. Topics include geometry, mathematics and music, artificial intelligence or climate modelling. All examples introduce our concept of participation, that I will introduce along with the role of open licenses and how to break with classical communication hierarchies.

More info about IMAGINARY: <https://about.imaginary.org>

Presenter: MATT, Andreas (IMAGINARY)

Contribution ID: 24

Type: **not specified**

Quelques réflexions sur la vulgarisation mathématique

Monday, October 24, 2022 9:00 AM (1h 15m)

Lecture in French with slides in English

La vulgarisation mathématique n'est pas un sujet nouveau puisqu'on cite parfois l'Arénaire, ouvrage écrit par Archimède au III^e siècle avant J.-C., comme premier exemple d'un texte mathématique destiné à un public non-mathématicien. Pour autant la question est légitime : pourquoi dédions-nous du temps à la vulgarisation mathématique ? Dans cet exposé, j'aimerais partager quelques réflexions sur cette activité et son positionnement par rapport à l'enseignement et la recherche.

Presenter: ALVAREZ, Aurélien (ENS Lyon)

Contribution ID: 25

Type: **not specified**

Informal learning - inside and outside classroom

Tuesday, October 25, 2022 10:45 AM (1h 15m)

Informal learning activities can be a powerful tool to give meaning to what we learn, not only in a context like an exhibition, where we expect to find them, but also in the context of a classroom. Special care should be taken in the transition from an informal level to a more systematic one: else we risk to waste all the advantages given by an informal way of learning. Some examples will be illustrated in order to give supporting evidence to these ideas.

Presenter: DEDÒ, Maria (formerly University of Milan)

Contribution ID: 26

Type: **not specified**

From accidental to intentional outreach: towards outreach as a commitment to increase inclusive culture in STEAM

Friday, October 28, 2022 10:45 AM (1h 15m)

Outreach in STEAM should give us the power to create spaces and moments for sharing the enjoyment and passion for mathematics and its applications with people from all socioeconomic and educational backgrounds and identities. It should also open opportunities for underrepresented communities within our fields to consider studying and projecting a career in STEAM. But are we reaching this goal? What tools and means are we putting into place to make it happen?

In my talk, I will address the importance of developing and implementing outreach activities with an inclusive culture. I will share examples from activities in Mexico, the USA, and Switzerland that will allow us to reflect on how to tackle challenges from each particular context and community.

Presenter: ROLDAN, Erika

Contribution ID: 27

Type: **not specified**

Exploring Quadratis puzzles

Friday, October 28, 2022 9:00 AM (1h 15m)

This talk will be about a project aiming to illustrate geometry using a new family of reconfiguration puzzles inspired by topological and geometric constructions of surfaces. The puzzles inhabit a virtual, rather than physical, world and their “spaces” of possible configurations can be explored through visualization. So far the main outputs are a science centre installation, called Exploratis, developed in conjunction with the Luxembourg Science Centre and Quadratis - Game consisting of 16 puzzles packaged into an app. We will describe both of these, give our motivations (which go back to the interactive book Mathema), and outline the successes, the failures, and some of the problems encountered. Finally, we will attempt to draw some lessons from what we learned along the way.

Links:

<https://quadratis.app/>

<https://www.unige.ch/~turnerpa/Quadratis.html>

Presenters: PARLIER, Hugo (University of Luxembourg); TURNER, Paul (University of Geneva)

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TBA

Contribution ID: **28**

Type: **not specified**

TBA

Thursday, October 27, 2022 9:00 AM (1h 15m)

Presenter: PARIS-ROMASKEVICH, Olga

Contribution ID: 30

Type: **not specified**

The Maths Nerd Starter Kit 2022

Thursday, October 27, 2022 10:45 AM (1h 15m)

There's nothing better than finding somewhere you can geek out and unleash your love for Maths (like SRS!) but how do we create these spaces and connect Future Math Nerds with a community which is right for them?

In this talk:

Good starting points for people about to enter their Mathematical coming of age

An exploration of different Maths communities on different platforms

Highlighting the challenges the people of Maths face in overcoming gender bias, poverty, racism, ableism and other forms of discrimination (the Maths world exists in, and reflects, the wider world after all)

Appealing to different senses through art, music, manipulatives and storytelling to make Maths more accessible, and potentially even convert number-phobes!

The practice of Maths has been a constant throughout human history, across continents and cultures. In the present day most people recognise that Maths is used in industry to make our lives better, and often overlook the joy that recreational Maths can bring.

Either way Maths is present in every corner of life - so the more people are able to appreciate it the more layers of appreciation they can have for life itself.

Maths Communicators assemble!

Presenter: MACDONALD, Ayliean

Contribution ID: **31**

Type: **not specified**

Festival Math'émerville - Même pas peur des maths

Saturday, October 29, 2022 11:00 AM (7 hours)