



INTERNATIONAL
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Building Mathematical Capacity against social discrimination: A Pilot Youth Hackathon Initiative

Implemented by the International Mathematics Master (IMM)
Funded by the Elsevier Mathematical Sciences Sponsorship Fund



Youth Hackathon Initiative – June 13 2026, 9am-7pm

Panel Event – June 14 2026, 10am-1pm

A youth-focused program that brings mathematical thinking to the forefront of social transformation. Through a hackathon and a panel event held the project equips young mathematicians to analyse, model, and propose solutions to systemic discrimination by bridging rigorous mathematical tools with critical thinking. The most challenging issues of discrimination, inequality and exclusion and the most promising actions and solutions will be the engine of the panel reflections to scale youth potential and collective actions for a transformative future.



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Youth Hackathon Initiative

June 13 2026, 9am-7pm

A full-day, group-based mathematical hackathon where 40 selected students of Bachelor's level work on modelling real-life discrimination issues involving:

Spread and dynamics of social discrimination
Inequalities in educational access
Decision-making biases and the job market
Intersectional barriers

Participants will develop models using differential equations, stochastic processes, optimisation, and/or data analysis supported by IMM student as facilitators.

Results will be presented during the panel on Sunday 14th June.

Hackathon schedule

9am-10am Project and social issues introduction & groups division

10am-11am Groups presentation & challenge explanation

Coffee break

11:15am-1:15pm Issues brainstorming and approach selection

Lunch break

2:15pm-4:15pm Modelling and solution design

Coffee break

4:30pm-6:30pm Solution finalisation & presentation

6:30pm-7pm Validation & delivery