Tahrir Square Math Club





Welcoming word by prof. Wafik Lotfallah Math clubs organizers Vision Goals Challenges Proposal



Prof. Wafik Lotfallah



Towards an economic prosperity through useless progress



Faculty of Arts Lecturer Cairo Uni Egyptian University History

Common Observation

CS Why Statistics? LLM Eng Why Numerical Methods? PIM Math Why..? Career Shift

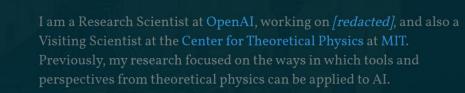


Consumer not innovator

Use ChatGPT, NOT Compete with it







I am a co-author of The Principles of Deep Learning Theory, coauthored with Sho Yaida, and based on research in collaboration with Boris Hanin. You can buy a copy in print from Amazon, directly from Cambridge University Press, or download a free draft from the arXiv!

If that sounds interesting, but perhaps also a bit much, you could instead check out my essays, Black Holes and the Intelligence Explosion and Why is AI hard and Physics simple?, or listen to to my podcast interview, What Physics Can Teach Us About AI.

I'm also a member of the advisory committee for the AIMO Prize, and I'm very excited about the development of AI models that can reason, mathematically or otherwise.

Only a theoretical physicist can do it



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Maryam Mirzakhani

The beauty of mathematics only shows itself to more patient followers

First women to be awarded Fields Medal

Usefulness of Useless Knowledge

The

ABRAHAM FLEXNER

With a companion essay by ROBBERT DIJKGRAAF

Institute of Advanced Study

FORUM INSTITUTIONAL Here's why we need to fund fundamental

scientific research

Jan 19, 2023



Economic growth

Why Basic Science Matters for Economic Growth ⊲

Public investment in basic research will pay for itself.

Philip Barrett, Niels-Jakob Hansen, Jean-Marc Natal, Diaa Noureldin October 6, 2021

Listen with Speechify

International Monetary Fund

Quote

"We find that basic scientific research affects more sectors, in more countries and for a longer time than applied research (commercially oriented R&D by firms)"



🔪 / About 🕑 / Facts 🕑 / Data stories archive / Basic science research is also a source of new talents for society.

Basic science research is also a source of new talents for society.

Quote: Contrary to popular belief, not all scientists trained at EPFL follow an academic career .. source of highly skilled labour for Switzerland.



- Individual Skill
- Social talent attraction
- Nations Economy

Situation

- Individuals do not believe in Math -> Quick success
- Best talents travel abroad -> No community
- Economy degraded -> No innovation



- Assisting individuals
- Building a community, not dependent on a single entity
- Cooperation with the government





- Students are awarded MIT, Stanford and other prestigious universities scholarships.
- China's endeavor to cultivate innovative talents.



- Abroad scholarships for individuals.
- Communication circle with Egyptians abroad.
- Internal fund by the government or external by others.



Regardless of the activity, like Competition, Workshop, Undergraduate Research, ..etc, What matters is the outcome not the approach.



Halls







Ewart Memorial Hall

Falaki Mainstage Theater **Oriental Hall**

AUC Tahrir Square Venues



| Dates | |
|---------------------------|-------------|
| mm/dd/yyyy,: | Ë |
| mm/dd/yyyy,: | Ë |
| Add Date | Remove Date |
| Top Dates Submissions | |
| Date | Count |
| 6 February 2025 - 6:00 PM | 187 |
| 2 February 2025 - 6:00 PM | 22 |
| 4 February 2025 - 6:00 PM | 16 |
| | |







Dr. Ahmed El-Refaie



Transportation Outside Big Cairo



Minority Respecting Mechanism Adel Sobhy, MSA

Decide 4 workshops

User-base Preference 100 - Python 20 - Statistics 5 - Algebraic Geometry 2 - Homotopy Theory

Majority 100/127 = 0.8 3 workshops -> Python

Decide 4 workshops

Minority Respecting 1 workshop -> Python 1 workshop -> Statistics 1 workshop -> Algebraic Geometry 1 workshop -> Homotopy Theory

Voting Power

Jumana Python Time-series Analytics 1 Tameem Python Recommendation Engine 1 Rashid Python Recommendation Engine 1 Layla Algebra Representation Theory 3

2 Workshops: Rep Th. (3), Rec. Eng (1+1).

How?

Algebra power = Python power $\sum_{i \text{ power of vote } i = \sum_{i \text{ power of vote } i}$

System of Linear Equations

Instructor-student gap

