

# Rohan Kalluraya

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Cambridge A level student with a keen interest in mathematics. Exploring applications of mathematics in life sciences.

## Education

May 2021– DriveChange Learning and Resource Centre  
*Cambridge A Levels*

coursework A Level – Mathematics, Biology, Physics and Economics  
AS Level – General English

2009–2021 Vidya Valley School  
*Indian Certificate of Secondary Education (ICSE)*

97% aggregate score 10th Standard Board Examinations

100/100 in Biology and Computer Science (Rank #1 among 219,499 students)

## Leadership Projects

May 2021– Math Club & Singularis Contest  
*Founder*

- Established Math Club to discuss advanced math topics
- Organized Singularis international Math Contest with 150+ participants across the world  
Sponsored by Wolfram and GeoGebra-Byju's

May 2019– Digidetox.org  
*Founder*

- Created a platform to increase awareness and self-assessment of Internet addiction in teens

## Internships

June 2022– AG Diagnostics  
*Logistics Analyst Intern*

- Optimized Covid-19 biowaste collection and medical supply routes for 33 Centers from the central store using a mixed integer linear programming approach

June 2022– Deeptek.AI  
*Statistics Research Intern*

- Studied advanced statistical methods for evaluation of AI models for healthcare
- Wrote research blogs on Statistical Significance Tests

Aug 2022– DLRC School  
*Teaching Assistant – Economics*

- Co-facilitated Economics lectures for grade 11 students
- Conducted monthly assessment tests

## Testing

May 2022 Cambridge AS Levels

- Mathematics : **A**
- Physics : **A**
- Biology : **A**
- Economics : **A**

May 2022 Advanced Placement

- AP Calculus BC : **5**
- AP Statistics : **5**
- AP Computer Science : **5**

Dec 2021 TOEFL

- Score : **111/120**

Oct 2021 SAT

- **1540 (99 Percentile)**
- EBR&W : **760**
- Math : **780**

## Honors

- 2022 AP Scholar – Score of 5 in three AP Exams
- 2022 STEM Scholarship – Cambridge Center for International Research (Awarded to top 35%)
- 2022 Yale Young Global Scholars Best Capstone Project – Innovations in Science and Technology Session I
- 2022 Distinction – Euclid and Hypatia Math Contest by CEMC University of Waterloo
- 2021 National Rank #1 – Biology and Computer Science in ICSE Board Exams (#1 out of 219,499 students)
- 2021 National Rank #15 – Indian Statistical Institute LIMIT Exam (Qualified for LIMIT Math Camp) Bronze
- 2021 Medallist – Math Kangaroo
- 2020 National Rank #5 – Sridhara Math Contest by Chennai Mathematics Institute

## Research Papers

- 2022 **Kalluraya\***, Pant\*, Sanghi\*. Analysis of Trends in Internet Addiction among Teenagers. <https://www.digidetox.org/wp-content/uploads/2022/10/Analysis-of-Trends-Digidetox-Paper-Sept-2022.pdf>. \*equal contribution
- 2022 **Kalluraya**. Minimizing costs of Covid-19 biomedical waste collection using Mixed Integer Linear Programming approach. [https://rohankall.com/wp-content/uploads/2022/10/Minimizing-costs-of-Covid-19-biomedical-waste-collection-using-Mixed-Integer-Linear-Programming-approach\\_\\_RohanKalluraya\\_\\_01.pdf](https://rohankall.com/wp-content/uploads/2022/10/Minimizing-costs-of-Covid-19-biomedical-waste-collection-using-Mixed-Integer-Linear-Programming-approach__RohanKalluraya__01.pdf)
- 2021 Awate\*, Iyengar\*, Chavan\*, **Kalluraya\***. Q-ANALOGUES : Study of Combinatorial Interpretation of Q-analogues. <http://simonrs.com/eulercircle/combinatorics2021/om-adityavardhan-sarth-rohan-qanalogues.pdf>. \*equal contribution
- 2021 **Kalluraya\***, Leventhal\*, Ellis\*. MANCALA – LIKE GAMES : Study of a class of combinatorial games known as Sowing games. <http://simonrs.com/eulercircle/cgt2021/rohan-elias-mehana-mancala.pdf>. \*equal contribution

## Summer Programs & Courses

- 2022 Cambridge Center for International Research – Mixed Integer Linear Programming Course  
*Taught by Dr. Benoît Legat – MIT*
- 2022 Indian Institute of Science and Research Pune – Biostatistics Course: A User’s Perspective
- 2021 Euler Circle – Advanced Combinatorics & Combinatorial Game Theory Program  
*Taught by Prof. Simon Rubinstein-Salzedo – Stanford*
- 2020 Program in Algorithmic & Combinatorial Thinking (PACT)  
*Taught by Prof. Rajiv Gandhi – Rutgers University*
- 2019 Raising a Mathematician Summer Program

## Volunteering

- 2019– Doorstep School
  - Taught grade 4 & 5 children of construction workers at mobile schools located on construction sites in Bavdhan, Pune
  - Imparted lessons in Basic Math, English, Marathi and Life Skills
  - 4~5 hours commitment per month

## Sports

- 2014– Chess
  - Member of the School team
  - 2 time City Level Champion
- 2012– Soccer
  - Captain of Vidya Valley School Team
  - Vidya Valley u17 Team Placed #1 in Pune District
- 2011– Tennis
  - Member of the School team
  - Winner of District Level Ranking Championship
  - Assistant coach : ODM Tennis Academy, Pune
- 2012– Taekwondo
  - Member of the School team
  - Blackbelt certified
  - 2 time District Level Champion