

Curriculum Vitae

Alexandru Pascadi

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Education

October 2021 – Present **Institution:** *Mathematical Institute, University of Oxford*
Program: DPhil in Mathematics (Passed transfer of status)
Supervisor: Prof. James Maynard
Topics: Analytic Number Theory, Additive Combinatorics

September 2017 – June 2021 **Institution:** *University of California, Los Angeles*
Degrees: M.A. in Pure Mathematics
B.S. in Mathematics of Computation
GPA: 4.0 / 4.0

In the Departmental Scholars Program, with the Math Undergraduate Merit Scholarship. Graduated in June 2021 with simultaneous M.A. and B.S.

September 2013 – June 2017 **Institution:** *“Tudor Vianu” National High School of Computer Science*
Diploma: Romanian Baccalaureate (10.00 / 10.00)

Publications & Preprints

Pascadi, A. (2023). Smooth numbers in arithmetic progressions to large moduli. Preprint, arxiv:2304.11696.

Pascadi, A. (2023). The sparse regularity method with Schatten norms and Shannon entropy. Preprint, arxiv:2305.08567.

Pascadi, A. (2022). Computer-assisted proofs of congruences for multipartitions and divisor function convolutions, based on methods of differential algebra. *The Ramanujan Journal*, 57(1), 1-36.

Pascadi, A. (2021). Several new product identities in relation to Rogers–Ramanujan type sums and mock theta functions. *Research in the Mathematical Sciences*, 8(1), 1-58.

Gillman, N., Kural, M., Pascadi, A., Peng, J., & Sah, A. (2020). Patterns of primes in the Sato–Tate conjecture. *Research in Number Theory*, 6(1), 1-30.

Teaching

October 2021 – Present **Mathematical Institute (Oxford)**
Tutor & Teaching assistant

Held tutorials and revision classes for the intercollegiate courses C3.8 (Analytic Number Theory) and B8.4 (Information Theory).

*September 2018 –
June 2021* **Olga Radko Endowed Math Circle (UCLA)**
Instructor of Olympiad group
Designed and taught weekly Olympiad-training lessons for students ranging from 6th to 9th grade. Focused on the Bay Area Mathematical Olympiad.

*September 2016 –
June 2017* **Junior Math Circle (Tudor Vianu)**
Instructor of Olympiad group
Started a series of weekly Olympiad-training lessons for 7th and 8th graders. Covered problems in combinatorics, algebra, geometry and number theory.

Awards

July 2022 **Garside Senior Scholarship (Corpus Christi College, Oxford)**
Awarded to one graduate student in mathematics every two years

May 2021 **Daus Prize (UCLA)**
Awarded to top-ranked undergraduate students in mathematics

July 2019 **Spirit of Ramanujan STEM Fellowship**
Funded by the Templeton World Charity Foundation

June 2018 **Richard F. Arens Undergraduate Award (UCLA)**
Awarded for results in the William Lowell Putnam Competition

December 2017 **William Lowell Putnam Mathematical Competition**
Honorable mention, rank 39

*September 2017 –
June 2021* **Mathematics Undergraduate Merit Scholarship (UCLA)**
Awarded yearly to one incoming undergraduate student

April 2017 **Laurentiu Panaitopol Excellence Prize in Mathematics**
Awarded yearly by the Romanian Mathematical Society to one student in their final high school year

July 2016 **International Mathematical Olympiad (Hong Kong)**
Silver medal, representing Romania

2015 and 2016 **Princeton University Mathematics Competition, Power Round**
Second place overall, first place among international teams (in both years)

2014 and 2015 **Romanian Master of Informatics**
Bronze medal in both years

June 2014 **Junior Balkan Mathematical Olympiad (Macedonia)**
Gold medal, representing Romania