

Alex Samuel Bamunoba, PhD,

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DOB: 10th October 1986, POB: Nakasongola, Nationality: Ugandan



SUMMARY: Dr. Bamunoba is an Associate Professor at Lira University with a strong background in Mathematics, specializing in Algebra and Number Theory with applications in Cryptography. He is a dynamic and passionate educator with experience as a Lecturer and Mathematics Olympiad Trainer. Proven track record in organizing successful seminars and workshops serving as a dedicated member of the Uganda Mathematical Society (UMS) and the Eastern Africa Algebra Research Group (EAALG).

EDUCATION:

- 2012 – 2014: PhD in Mathematics, University of Stellenbosch, South Africa.
- 2010 – 2011: MSc. in Mathematics, University of Stellenbosch, South Africa.
- 2009 – 2010: Postgraduate Diploma in Mathematical Sciences, AIMS-South Africa,
- 2005 – 2008: BSc.(Hons) with Education, Makerere University, Uganda.

SCHOLARSHIPS/AWARDS:

- 2019 – 2020: Short-term Postdoc (Sida supported) at Stockholm University, Sweden.
- 2015 – 2016: AIMS Alumni Small Research Grants Award (AASRG), Stellenbosch University.
- 2011 – 2014: DAAD Scholarship at Stellenbosch University, South Africa.

SELECTED CONFERENCES/WORKSHOPS:

- 2025 (Uganda team leader) The 3rd International Mathematics Summer Camp, Beijing, China.
- 2025 (co-organiser) Effective Algebra and the LMFDB – (CIMPA-Makerere school), Uganda.
- 2024 (co-organiser) EAALG workshop in Algebra, Makerere, Uganda.

SELECTED PUBLICATIONS:

- Innocent Ndikubwayo, and **Alex Samuel Bamunoba**, On the location of ratios of zeros of special trinomials, *Quaest. Math.*, vol. 48, no. 12, (2025), 1799–1822.
- **Alex Samuel Bamunoba** and Jonas Bergström, A search for c-Wieferich primes, *Int. J. Num. theory*, Vol. 17, No. 7 (2021) 1599–1616.

SELECTED PRESENTATIONS/TALKS:

- 2023, The Riemann Hypothesis (undergraduate talk), Makerere University.
- 2022, Mathematics – what is it? (undergraduate talk), Makerere University.

SUPERVISION/CO-SUPERVISION:

Postgraduate (completed):

- 2017 – 2022 (co-supervisor) Ms. Kyomuhangi Annet, PhD, (co-supervisor) Ms. Nabawanda Olivia, PhD., and Mr. Kimuli Philly, PhD all at Makerere University.
- Mr. Masaba Patrick (Msc.), Makerere University

Postgraduate (in progress):

- 2023 – To DATE: (co-supervisor) Mr. Mugaya Samson (PhD.), (co-supervisor) Ms. Nanteza Hellen (MSc.), Makerere University.

PROGRAMMING (Procedural and Scientific):

- Python (Scipy and Numpy) , SageMath, Singular, GAP, Pari-GP and LaTeX.