

# SAMIN RIASAT

Tel: +1 519 888 4567 x 32803  
Email: sriasat@uwaterloo.ca

Department of Pure Mathematics  
University of Waterloo  
200 University Avenue West  
Waterloo, ON, Canada N2L 3G1

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## EDUCATION

- 2015–present**    **PhD in Pure Mathematics.** University of Waterloo, Waterloo, Ontario, Canada
- 2014–15**        **MMath in Pure Mathematics.** University of Waterloo, Waterloo, Ontario, Canada
- 2010–13**        **BA (Hons) in Mathematics.** University of Cambridge, Cambridge, United Kingdom

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## TEACHING EXPERIENCE

- 2014–present**    **Teaching Assistant.** University of Waterloo, Waterloo, Ontario, Canada
- 2009–present**    **Trainer and Question Setter.** Bangladesh Mathematical Olympiad, Dhaka, Bangladesh
- 2013–14**        **Lecturer.** University of Asia Pacific, Dhaka, Bangladesh
- 2010**            **Mentor.** Viqarunnisa Noon School Science Festival, Dhaka, Bangladesh

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## SELECTED HONOURS AND AWARDS

- 2015**            **Graduate Research Studentship.** University of Waterloo, Waterloo, Ontario, Canada
- 2015**            **International Doctoral Student Award.** University of Waterloo, Waterloo, Ontario, Canada
- 2014**            **Pure Mathematics Departmental Award.** University of Waterloo, Waterloo, Ontario, Canada
- 2010**            **Cambridge Trusts Scholarship.** University of Cambridge, Cambridge, United Kingdom
- 2010**            **Queens' College Bursary.** University of Cambridge, Cambridge, United Kingdom
- 2009**            **Bronze Medal.** International Mathematical Olympiad, Bremen, Germany
- 2007–09**        **Champion.** Bangladesh Mathematical Olympiad, Dhaka, Bangladesh

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## PUBLICATIONS

- 2016**            **Cyclic Numbers and Latin Squares.** Notes from the Margin (Canadian Math. Soc.), Volume XI
- 2014**            **Generalising the Division Algorithm.** Eureka (Cambridge Univ. Math. Soc.), Issue 63
- 2011**            **The Factors of Binomials.** Eureka (Cambridge Univ. Math. Soc.), Issue 61
- 2011**             **$\mathbb{Z}[\varphi]$  and the Fibonacci Sequence Modulo  $n$ .** Mathematical Reflections, Issue 1 (2011)
- 2007–09**        **J69, J71, O80, S90, J108, J112, S129.** Problem Column, Mathematical Reflections
- 2008**            **Basics of Olympiad Inequalities.** A widely circulated reference on the web

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## TALKS

### UNIVERSITY OF WATERLOO:

- 2017**      **Infinite Products Involving the Thue-Morse Sequence**, CS 860 Student Talks
- 2016**      **The Least Prime Factor of A Binomial Coefficient**, Graduate Student Colloquium
- 2016**      **Fast Fourier Transform for Polynomial Multiplication**, PMATH 940 Student Talks
- 2015**      **A Proof That Euler Missed**, PMATH 940 Student Talks
- 2015**      **Division by Subtraction, and Ordered Groups**. Student Number Theory Seminar
- 2014**      **On Dividing A Square into Triangles**. PMATH 940 Student Talks

### OTHER:

- 2014**      **Graph Theory**. BRAC Mathematics Circle, BRAC University
- 2013**      **Well-Ordering in Groups**. Tomorrow's Mathematicians Today, University of Greenwich
- 2010**      **Prime Factors of Binomial Coefficients**. Ramanujan Ganit Sangha, Dhaka

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## CONFERENCES

- 2016**      **Canadian Mathematical Society Winter Meeting**. Niagara Falls, ON, Canada
- 2016**      **Canadian Number Theory Association Conference**. University of Calgary, AB, Canada
- 2015**      **Elliptic Curves, Diophantine Geometry & Dynamics**. Brown University, Providence, RI, USA
- 2015**      **AMMCS-CAIMS Congress**. Wilfrid Laurier University, Waterloo, ON, Canada
- 2014**      **Analysis, Spectra & Number Theory**. Princeton University, Princeton, NJ, USA
- 2013**      **Tomorrow's Mathematicians Today**. University of Greenwich, London, UK

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## OTHER SKILLS

- Programming**    C,  $\text{\LaTeX}$ , MATLAB, SageMath, Maple
- Languages**      Bengali, English
- Weblog**          <http://sriasat.wordpress.com>

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## REFERENCES

Dr Cameron Stewart  
University Professor  
University of Waterloo  
Waterloo, ON, Canada  
+1 519 888 4567 x 35567  
cstewart@uwaterloo.ca

Dr Julia Gog  
Director of Studies  
Queens' College Cambridge  
United Kingdom  
+44 1223 760429  
jrg20@cam.ac.uk

Dr Mahbub Majumdar  
Bangladesh IMO Team Coach  
BRAC University  
Dhaka, Bangladesh  
+880 447 844 4060 x 5065  
mahbub@alum.mit.edu