

Ayesha Hussain

School of Mathematics – University of Bristol – Bristol, UK, BS8 1TH

✉ ayesha.hussain@bristol.ac.uk

*3rd year PhD student interested in Analytic Number Theory,
with particular focus on random multiplicative functions.*

Education

University of Bristol

PhD Student

2018–Present

Advised by Dr Jonathan Bober.

University of Durham (Grey College)

Integrated Masters Student, 1st Class

2013–2017

Final year project titled *The Rankin-Selberg Bound: Bounding the Fourier Coefficients of Cusp Forms Using the Rankin-Selberg Method.*

Advised by Dr Jens Funke and Dr Thanasis Bouganis.

Teaching Experience

University of Bristol

Undergraduate Tutor

Autumn 2018 – Present

- First year Mathematics 1A20 module tutor (Autumn 2020)
- Analysis B module tutor (Spring 2020),
- Number Theory module homework marker (Spring 2020),
- First year Mathematics 1A20 module tutor (Autumn 2019),
- Engineering Mathematics Teaching Assistant (Autumn 2019),
- Numerical Analysis Teaching Assistant (Spring 2019),
- First year Mathematics 1A20 module tutor (Autumn 2018).

University of Durham

Homework Marker

Autumn 2016 – Spring 2017

Second year Numerical Analysis module homework marker.

Miscellaneous.....

Self Employed

Private Tutor

2011 – Present

One-on-one Mathematics tutor.

- Preparing pupils for 11+, 13+, GCSE, A Level and University Admission examinations.

Seminar Talks

University of Bristol

Linfoot Seminar

March 2020

Distributions of Character Sums

University of Bristol

Postgraduate Seminar

November 2020

Conference Talks

University of Warwick

Young Researchers in Algebraic and Analytic Number Theory
Paths of Dirichlet Characters

November 2019

Conferences

University of Bristol

Heilbronn Annual Conference 2020

September 2020

University of Warwick

Young Researchers in Algebraic Number Theory

November 2019

University of Oxford

Warwick-Oxbridge-Manchester-Bristol-London (WOMBL)

September 2019

University of Bristol

Heilbronn Annual Conference 2019

September 2019

Grand Hotel San Michele, Cetraro, Italy

Symposium on Analytic Number Theory

July 2019

University of Bristol

CMI-HIMR Summer School in Computational Number Theory

June 2019

University of Mississippi

NSF-CBMS Conference: L-Functions and Multiplicative Number Theory

May 2019

University of Cambridge

Warwick-Oxbridge-Manchester-Bristol-London (WOMBL)

January 2019

University of Sheffield

Young Researchers in Algebraic Number Theory

November 2018

Outreach

University of Bristol

Women and Non-Binary People in Maths: Opportunities for the future
Conference co-organiser for the 2 day event.

November 2019

University of Bristol

Women in Mathematics Research
Gave a workshop on aspects of my research.

September 2019

Cheltenham Science Festival

Discover Zone Mathematics Stand
Helped showcase interactive Mathematics exhibits for the general public.

June 2019

Walthamstow Hall Senior School

Mathematics at Undergraduate Level and Beyond
Gave talks to years 10-12 about Mathematics at University.

November 2018

Francis Holland School

Mathematics: Applications after School
Gave talks to years 10-12 about Mathematics at University.

November 2018

Miscellaneous

Programming Experience: Experience using Latex, Python, HTML, CSS, Java.

Conference Co-organiser: MINGLE 2019 (annual Bristol postgraduate conference).

Conference Co-organiser: Young Researchers in Mathematics 2021, Young Researchers in Algebraic and Analytic Number Theory 2021.

Conference Organiser: 'Women in Mathematics Research Workshop' 2020 with AMSP.

References

Dr Jonathan Bober

University of Bristol

PhD supervisor.

jwbober@gmail.com

Dr Jens Funke

University of Durham

Final year project supervisor.

jens.funke@durham.ac.uk

Dr Thanasis Bouganis

University of Durham

Final year project supervisor.

athanasios.bouganis@durham.ac.uk