Ayesha Hussain

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1st year PhD student interested in Analytic Number Theory,
with particular focus on multiplicative functions.

Education

University of Bristol

PhD Student — 2018–Present

Heilbronn Studentship award.
Advised by Dr Jonathan Bober.

- o Studying the distribution of sums of Dirichlet characters weakly converging to random functions;
- o Attending and presented in 'Affine Sieves' reading group
- o Attending and presented in 'Catalan Conjecture' study group.

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 — Spring 2019 – Present

Final year Numerical Analysis module homework marker.

- o Marking weekly homework and giving feedback;
- o Helping in the weekly support classes.

University of Bristol

Undergraduate Tutor — Autumn 2018

First year Mathematics 1A20 module tutor.

- o Teaching 10-15 students weekly;
- o Marking weekly homework and giving feedback.

University of Durham

Homework Marker — Autumn 2016 – Spring 2017

Second year Numerical Analysis module homework marker.

- o Marking fortnightly homework;
- o Giving feedback and liaising with the lecturer of the module.

Miscellaneous

Self Employed

Private Tutor — 2011 – Present

One-on-one Mathematics tutor.

- o Preparing pupils for 11+, 13+, GCSEs and A Level examinations;
- o Teaching either weekly or fortnightly key concepts shown in school.

Conferences

University of Cambridge
Warwick-Oxbridge-Manchester-Bristol-London (WOMBL)   *January 2019*
Attended 1 day meeting in additive combinatorics and analytic number theory.

University of Sheffield
Young Researchers in Algebraic Number Theory   *November 2018*
Attended 2 day young researchers conference.

Miscellaneous

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

References

Dr Jonathan Bober   **jwbober@gmail.com**
University of Bristol
PhD supervisor.

Dr Jens Funke   **jens.funke@durham.ac.uk**
University of Durham
Final year project supervisor.

Dr Thanasis Bouganis   **athanasios.bouganis@durham.ac.uk**
University of Durham
Final year project supervisor.