

Shengbo (Mike) Wang

Tier 4 (General) Student Visa
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☎ Upon request

in mike-sb-wang

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EDUCATION

2017–Now	Institute of Cosmology and Gravitation, University of Portsmouth <i>Doctor of Philosophy</i> Thesis—“Theoretical Considerations in Large-Scale Structure Analyses” Supervisors—Prof R Crittenden, Prof W J Percival, Dr S Avila, Dr D Bianchi Research interests—large-scale structure cosmology, statistical modelling/inference
2013–2017	Clare College, University of Cambridge <i>MMath (Distinction), BA (1st Class)</i> Mathematical Tripos—first class in each undergraduate year; 90% marks attained in Part III Essay; declined an unfunded PhD offer in Theoretical Physics
2010–2012	Canford School, Dorset <i>A-Level 4A* (Maths, Further Maths, Physics, Chemistry), AS-Level A (Economics), Extended Project Qualification A*, Sixth Term Examination Paper 2S</i> (‘Outstanding’ in both papers, with 116 and 118 marks out of 120)

EXPERIENCE

2016	Summer Placement Researcher University of Cambridge <ul style="list-style-type: none">– Identified correlation signals in S&P 500 stock data using Random Matrix Theory– Modelled and validated clustering hierarchy for the stock market
2015	Research & Technology Intern BT Group <ul style="list-style-type: none">– Extracted business intelligence using ‘big data’ tools such as Apache Hive and SQL– Presented research findings with visualisation tools such as Tableau– Made an impact on BT Sports content provision through in-depth app analytics
2014–2015	Secretary & Subscription Manager Eureka: Cambridge University Maths Journal <ul style="list-style-type: none">– Attracted more long-term overseas subscriptions and cleared historic back logs– Re-designed a more professional invoice template– Implemented a new teamwork platform using Google services
2014	Teaching Coordinator New Oriental Education & Technology Group <ul style="list-style-type: none">– Recognised for high student retention rates and work ethics– Smoothly coordinated between headquarters and students, teachers, parents
2012, 2014	A-Level / IGCSE Tutor Offered tuition in maths, physics and chemistry
2010	Hall Assistant China Merchants Bank Dealt with banking enquiries and participated in retail promotion

ACHIEVEMENTS

2017	Horne Prize <i>Clare College, University of Cambridge</i> Achieving Distinction in physical sciences
2013–2017	Cambridge Overseas Trust Scholarship <i>Cambridge Trust</i>
2013–2016	Harry Patten Prize, Amiya Banerji Prize (twice), Foundation Scholarship <i>Clare College, University of Cambridge</i> Best Part II, IB & IA examination results in College
2011, 2012	British Physics Olympiad Gold Medal (twice) <i>British Physics Olympiad</i> Top-15 finalist at Oxford Training Camp and Royal Society ceremony in 2012
2011, 2012	Senior Maths Challenge Gold Award (twice) <i>United Kingdom Mathematics Trust</i>
2011, 2012	Leavers' Maths Prize, Leavers' Physics Prize, Baynham Essay Prize <i>Canford School</i>

PROFESSIONAL AFFILIATIONS

2018–Now	ESA Euclid Consortium Science Working Group (SWG) Galaxy-Clustering Working Package (GC-WP) member
2017–Now	Fellow of the Royal Astronomical Society (FRAS)

PUBLICATIONS & PRESENTATIONS

First-author publications

- ✦ “Cosmological Inference from Galaxy-Clustering Power Spectrum: Gaussianization and Covariance Decomposition”. MSW, W J Percival, S Avila, R Crittenden & D Bianchi, 2019. *Monthly Notices of the Royal Astronomical Society* **486**(1), 956

Selected presentations

- ✦ “Linear Galaxy-Clustering Map Making and Reading”
Talks—*SEPnet Student-Led Conference* (Southampton, 2019)
- ✦ “Cosmological Inference from Galaxy-Clustering Power Spectrum: Gaussianization and Covariance Decomposition”
Talks—*South Coast Cosmology Meeting* (Portsmouth, 2019), *Euclid Consortium UK Meeting* (Oxford, 2018), *4th CINY Joint Workshop on Frontiers of Cosmology* (Beijing, 2018)
Posters—*MPA Large-Scale Structure Summer School* (Berlin, 2018), *Annual Research & Innovation Conference* (Portsmouth, 2018)

ACTIVITIES

Teaching experience

- + Undergraduate computational physics workshop (University of Portsmouth, 2019)
- + Undergraduate coursework marking (University of Portsmouth, 2018 & 2019)

Outreach & engagement

- + “Meet a Physicist” (Portsmouth, 2018 & 2019)—physics outreach to secondary school pupils
- + “Stargazing Live” (Portsmouth, 2018 & 2019)—local astronomy public engagement event

Extra-curriculum

Squash, badminton, real tennis, clarinet, poetry writing, Chinese painting

SKILLS

Computing

Python, MATLAB, SQL, Apache Hive, \LaTeX , HTML, Tableau

Languages

Chinese (native), German (CEFR A2.2)

REFERENCES

Available upon request.