

Vedang Joshi

CONTACT INFORMATION

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EDUCATION

University of Bristol, Bristol, UK **Jul 2018 - Present**
Master of Engineering (MEng), Engineering Mathematics
Activities and Societies: Bristol Engineering Mathematics Society, Bristol Swimming Society,
Bristol Ice Skating Society

Royal Wootton Bassett Academy Sixth Form, Swindon, UK **Jun 2016 - Jun 2018**
A-Levels: Mathematics, Further Mathematics, French, Physics, EPQ
Activities and Societies: Senior Prefect, Sixth Form Leadership Team

RESEARCH EXPERIENCE

University of Cambridge, Cambridge, UK **Jun 2021 - Sept 2021**
Research Assistant, Epidemiology and Modelling Group

- Advisors: Dr. Renata Retkute, Dr. Cerian Webb and Prof. Chris Gilligan
- Spatially-explicit stochastic dynamic epidemiological simulations on Citrus Huanglongbing.
- Modelling the spread of tree pests through road networks using stochastic simulations.

Imperial College London, London, UK **Jun 2020 - Oct 2020**
Research Assistant, Biomathematics Group

- Advisors: Dr. Florian Klimm and Prof. Nick Jones
- Node-centralities in mitochondrial protein interaction networks for predicting gene essentiality.

TEACHING EXPERIENCE

University of Bristol, Bristol, UK **Sept 2021 - Present**
Demonstrator (Teaching Assistant)
EMAT10006 Further Computer Programming, EMAT10100 Engineering Mathematics 1, EMAT22220 Mathematical and Data Modelling 2: Teaching includes basic software engineering and collaborative coding skills. We cover vectors, complex numbers, matrices as transformations, eigenvalues and eigenvectors, sequences, series, functions, curve sketching, fourier series, numerical analysis, differentiation and integration of functions of one variable, Taylor series, numerical root finding, introduction to partial differentiation, differential equations and probability. Mode of teaching split between online and face-to-face learning.

Demonstrator (Teaching Assistant) **Sept 2020 - May 2021**
EMAT10704 Discrete Mathematics 1: Teaching included number systems and arithmetic, logic and proof, sets, relations and functions. Includes graph theory, and the link between continuous and discrete mathematics. Mode of teaching split between online and face-to-face learning.

Mathematics in Education and Industry, Swindon, UK **Jun 2020 - Sept 2020**
Teaching Assistant/Mentor
Advanced Mathematics Support Programme: Tutoring Year 12 maths students preparing for STEP and MAT. Helping with online tutorials, marking papers and worksheets and giving written feedback on group mathematical modelling tasks.

Shaw Ridge Primary School, Swindon, UK

	<i>Teaching Assistant</i>	Oct 2016 - Nov 2016
	Teaching assistant for a Year 3 teacher to teach numeracy and literacy; assisted with class activity preparations.	
STEM OUTREACH	University of Bristol , Bristol, UK	
	<i>SCEEM (School of Engineering) Outreach Ambassador</i>	Oct 2019 - Jun 2020
	The role required me to go to schools in the Bristol area and deliver STEM workshops and presentations for students ranging from 10-18 years.	
	<i>Assistant, Urban Gulls Flight, Fluid and Aerodynamics Research Group</i>	Nov 2019 - Feb 2020
	Duties included helping Cara and Anouk give talks on their research to high school students, conducting workshops and helping repair drones used in their presentations.	
ACHIEVEMENTS	Academic Achievement Award	2018
	<i>Royal Wootton Bassett Academy</i>	
	One of 18 recipients: For outstanding achievement in A-Level results	
	Award for Services to the School & Community	2018
	<i>Royal Wootton Bassett Academy</i>	
	Silver, Gold Award	2017, 2018
	<i>Duke of Edinburgh Award</i>	
	Bronze, Silver Medal	2015, 2016
	<i>UK Mathematics Challenge</i>	
TECHNICAL SKILLS	<ul style="list-style-type: none"> • Languages: Python, MATLAB, limited experience in C and R • Operating Systems: MS Windows, MacOSX, Unix/Linux • High Performance Computing (HPC): SLURM, Moab/Torque proficient • Software: Maple, RStudio, Wolfram Mathematica, Jupyter Notebook/Google Colab, QGIS (Open Source Geographic Information System), GitHub, MS Office • Typography: \LaTeX 	
MEMBERSHIPS AND AFFILIATIONS	Student Member, Institute of Mathematics and it's Applications, UK	Dec 2019 - Present
	Student Member, Australian Mathematical Society, Australia	Jul 2020 - Jul 2021
LANGUAGES	English	Native proficiency
	Marathi	Native proficiency
	Hindi	Fluent
	French	Professional working proficiency
REFERENCES	Available upon request	