Vedang Joshi

Contact Information	Image: https://wedang-joshi.github.io/ Image: https://wedang-joshi.github.io/ Image: https://www.linkedin.com/in/wedangjoshi/	
Education	King's College London, London, UKOct 2023 - PresentDoctor of Philosophy - PhD, Computational Engineering Research Interests: Development of theoretical and computational fluid dynamical techniques to model natural swimming flow problems. Focus on the emergence of swarming behaviours in fish. Part-time PhD, funded by Boeing Defence UK Ltd. 	
	University of Bristol, Bristol, UKSept 2018 - Jul 2022Master of Engineering - MEng (Hons), Engineering MathematicsDissertation: A lateral line sensor based mechanistic algorithm for emergent fish schooling behaviours in multi-agent swarmsAdvisors: Prof. Sabine Hauert and Dr. Elliott ScottActivities and Societies: Bristol Engineering Mathematics Society, Bristol Swimming Society,Bristol Ice Skating Society	
Industry Experience	Boeing Defence UK Ltd, a subsidiary of The Boeing Company	
	Rotational Graduate SchemeSept 2022 - PresentTwo-year graduate rotational scheme with 4 × 6 month rotations around the UK.• Prosperity & Economic Data, UKDSC (Secondment), Farnborough, UK [Jan 2024 - Present]• Strategic Experimentation & Analysis, Fleet, UK [Sept 2023 - Dec 2023]• Research, Development & Engineering Strategy, Bristol, UK [March 2023 - Aug 2023]• TLCS-2 Project Engineering, Gosport, UK [Sept 2022 - Feb 2023]	
Research Experience	University of Cambridge , Cambridge, UK Research Assistant, Epidemiology and Modelling Group	Jun 2021 - Sept 2021
	 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. Efforts acknowledged in Modelling the spread of tree pests and pathogens in urban forests. 	
	Imperial College London, London, UK	Jun 2020 - Oct 2020
	 Advisors: Dr. Florian Klimm and Prof. Nick Jones Node-centralities in mitochondrial protein interaction networks for predicting gene essentiality. 	
TEACHING	University of Bristol, Bristol, UK	
Experience	Demonstrator (Teaching Assistant)Jan 2022 - May 2022EMAT10006 Further Computer Programming: Fundamentals of programming in Python. Taught basic software engineering skills (OOP etc.) and collaborative programming skills.	
	Demonstrator (Teaching Assistant)	Sept 2021 - May 2022

	EMAT22220 Mathematical and Data Modelling 2: Coursework based module designed to apply mathematical modelling and data analysis skills to the solution of problems of academia & industry.	
	Demonstrator (Teaching Assistant) EMAT10704 Discrete Mathematics 1: Number systems and arithmetic, le tions and functions. Includes graph theory, and the link between continu- matics. Mode of teaching split between online and face-to-face learning.	Sept 2020 - May 2021 ogic and proof, sets, rela- uous and discrete mathe-
Achievements	The Boeing Company Cash Prize	2023
	Research, Development & Engineering Strategy, Nov 2023 Going above and beyond to conduct testing in support of an IRAD growth project during my second 6 months in the graduate scheme.	
	TLCS-2 Project Engineering, May 2023 Delivering the responsibilities of a Project Engineering level 4 Technical Lead Engineer during the first 6 months of the graduate scheme.	
	Academic Achievement Award	2018
	Royal Wootton Bassett Academy One of 18 recipients: For outstanding achievement in A-Level results	
	Award for Services to the School & Community	2018
	Royal Wootton Bassett Academy	
	Bronze, Silver Medal	2015, 2016
	UK Mathematics Challenge	
Technical Skills	 S • Programming Languages: Python, MATLAB • Operating Systems: MS Windows, MacOS/iOS, Unix/Linux • ML/Statistical learning frameworks [Python]: Classification (Latent Dirichlet Alloo Regression (Extra-trees, Sequential Forward Selection), Time series, Clustering (KNN), I engineering (Dynamic time warping), Natural Language Processing (NLP), Markov chain • High Performance Computing (HPC): SLURM, Moab/Torque proficient • Software: Maple, Jupyter Notebook/Google Colab, QGIS (Open Source Geographic In tion System), GitHub, MS Office • Typography: IATEX 	
Memberships and Affiliations	Associate Member, The Institute of Engineering and Technology, UK	April 2023 - Present
	Associate Member, The Institute of Mathematics and its Applications, U	K Dec 2019 - Present
Languages	English	Native proficiency
	Marathi	Native proficiency
	Hindi	Fluent
	French Profession	al working proficiency

REFERENCES Available upon request