

Vedang Joshi

CONTACT INFORMATION	66, Tennyson Road, Fratton, Portsmouth, Hampshire, United Kingdom PO2 7RY	☎ Mobile: (+44) 7482 787983 ✉ E-mail: vedang0401@gmail.com 🌐 Homepage: https://vedang-joshi.github.io/ in LinkedIn: www.linkedin.com/in/vedangjoshi/
NATIONALITY	British	
EDUCATION	University of Bristol, Bristol, UK Master of Engineering (MEng), Engineering Mathematics Dissertation: A lateral line sensor based mechanistic algorithm for emergent fish schooling behaviours in multi-agent swarms, supervised by Dr. Elliott Scott and Prof. Sabine Hauert Activities and Societies: Bristol Engineering Mathematics Society, Bristol Swimming Society, Bristol Ice Skating Society	Sept 2018 - Jul 2022
INDUSTRY EXPERIENCE	Boeing UK, subsidiary of The Boeing Company <i>Graduate Project Engineer (Gosport, UK)</i> <ul style="list-style-type: none">• Manager: Paul Denham (Systems Engineering, Integration & Test Project Engineering Manager)• Developed key systems engineering knowledge including creating a requirements traceability document for supplier contracts.	Sept 2022 - Present
RESEARCH EXPERIENCE	University of Cambridge, Cambridge, UK <i>Research Assistant, Epidemiology and Modelling Group</i> <ul style="list-style-type: none">• 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 <i>Research Assistant, Biomathematics Group</i> <ul style="list-style-type: none">• Advisors: Dr. Florian Klimm and Prof. Nick Jones• Node-centralities in mitochondrial protein interaction networks for predicting gene essentiality.	Jun 2021 - Sept 2021 Jun 2020 - Oct 2020
TEACHING EXPERIENCE	University of Bristol, Bristol, UK <i>Demonstrator (Teaching Assistant)</i> EMAT10006 Further Computer Programming: Module designed for students to be fluent in the fundamentals of programming in Python. Taught basic software engineering and collaborative skills, so students are able to develop computer code efficiently in groups. <i>Demonstrator (Teaching Assistant)</i> EMAT22220 Mathematical and Data Modelling 2: Coursework based module designed to help students to improve their ability to apply mathematical modelling and data analysis skills to the solution of problems of academia, industry and business. <i>Demonstrator (Teaching Assistant)</i> 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.	Jan 2022 - May 2022 Sept 2021 - May 2022 Sept 2020 - May 2021

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 <i>Royal Wootton Bassett Academy</i> One of 18 recipients: For outstanding achievement in A-Level results Award for Services to the School & Community <i>Royal Wootton Bassett Academy</i> Silver, Gold Award <i>Duke of Edinburgh Award</i> Bronze, Silver Medal <i>UK Mathematics Challenge</i>
TECHNICAL SKILLS	<ul style="list-style-type: none"> • Programming Languages: Python, MATLAB, limited experience in C, R, AgentSpeak • Operating Systems: MS Windows, MacOS/iOS, Unix/Linux • ML/Statistical learning frameworks [Python]: Classification (Latent Dirichlet Allocation), Regression (Extra-trees, Sequential Forward Selection), Time series, Clustering (KNN), Feature engineering (Dynamic time warping), Natural Language Processing (NLP), Markov chains • 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: L^AT_EX
MEMBERSHIPS AND AFFILIATIONS	Associate Member, Institute of Mathematics and it's Applications, UK Dec 2019 - Present
LANGUAGES	English Native proficiency Marathi Native proficiency Hindi Fluent French Professional working proficiency
REFERENCES	Available upon request