

## Vedang Joshi

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CONTACT INFORMATION	Top Floor Flat, 65 Alma Road, Clifton Bristol, United Kingdom BS8 2DW	<i>Mobile:</i> (+44) 7482 787983 <i>E-mail:</i> vedang.joshi.2018@bristol.ac.uk <i>Web:</i> vedang-joshi.github.io
RESEARCH INTERESTS	Mathematical biology with applications primarily in dynamical systems and pattern formation (reaction/diffusion equations); complex networks; non-linear dynamical systems; mathematical epidemiology.	
EDUCATION	<b>University of Bristol</b> , Bristol, UK Master of Engineering (MEng), Engineering Mathematics Activities and Societies: Bristol Engineering Mathematics Society, Bristol Swimming Society, IceSoc  <b>Royal Wootton Bassett Academy Sixth Form</b> , Swindon, UK A-Levels: Mathematics, Further Mathematics, French, Physics, EPQ Activities and Societies: Senior Prefect, Sixth Form Leadership Team	<b>Jul 2018 - Present</b>  <b>Jun 2016 - Jun 2018</b>
PAPERS IN PREPARATION	Klimm, F., <b>Joshi, V.</b> , Jones, N.S. and Chinnery, P.F. Mitochondrial proteins tend to be central in protein interaction networks.	
RESEARCH EXPERIENCE	<b>University of Cambridge</b> , Cambridge, UK <i>Research Assistant, Epidemiology and Modelling Group</i>  • Advisors: Dr. Richard Stutt, Dr. Renata Retkute and Prof. Chris Gilligan • Spatially-explicit stochastic dynamic epidemiological simulations on Cassava Brown Streak Disease (Uganda), Wheat Stem Rust (Ethiopia), Banana Bunchy Top (Nigeria) and Citrus Huanglongbing (USA, Australia) epidemics  <b>Imperial College London</b> , London, UK <i>Research Assistant, Biomathematics Group</i>  • Advisors: Dr. Florian Klimm and Prof. Nick Jones • Node-centralities in mitochondrial protein interaction networks for predicting gene essentiality.	<b>Jun 2021 - Sept 2021</b>  <b>Jun 2020 - Oct 2020</b>
TEACHING EXPERIENCE	<b>University of Bristol</b> , Bristol, UK <i>Demonstrator (Teaching Assistant)</i> EMAT10704 Discrete Mathematics 1: Teaching includes 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.  <b>Mathematics in Education and Industry</b> , Swindon, UK <i>Teaching Assistant/Mentor</i> 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.  <b>Shaw Ridge Primary School</b> , Swindon, UK	<b>Sept 2020 - Present</b>  <b>Jun 2020 - Sept 2020</b>

	<i>Teaching Assistant</i> Teaching assistant for a Year 3 teacher to teach numeracy and literacy; assisted with class activity preparations.	<b>Oct 2016 - Nov 2016</b>
STEM OUTREACH	<b>University of Bristol</b> , Bristol, UK <i>SCEEM (School of Engineering) Outreach Ambassador</i> 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.	<b>Oct 2019 - Jun 2020</b>
	<i>Assistant, Urban Gulls Flight, Fluid and Aerodynamics Research Group</i> 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.	<b>Nov 2019 - Feb 2020</b>
VOLUNTEERING	<b>Cancer Research UK</b> , Swindon, UK <i>Sales Assistant</i> Duties included running the till, processing stock received and getting it ready for the shop floor, keeping the shop floor tidy and tending to customer needs, with regards to any merchandise sold.	<b>Feb 2017 - Feb 2018</b>
	<b>Swindon Borough Council</b> , Swindon, UK <i>Assistant Librarian</i> Volunteering at the West Swindon Library comprised mainly of shelving and stacking books, helping people around the library with any computer issues and maintaining order in the library.	<b>Jan 2016 - Jul 2016</b>
ACHIEVEMENTS	<b>Academic Achievement Award</b> <i>Royal Wootton Bassett Academy</i> One of 18 recipients: For outstanding achievement in A-Level results	<b>2018</b>
	<b>Award for Services to the School &amp; Community</b> <i>Royal Wootton Bassett Academy</i>	<b>2018</b>
	<b>Silver, Gold Award</b> <i>Duke of Edinburgh Award</i>	<b>2017, 2018</b>
	<b>Bronze, Silver Medal</b> <i>UK Mathematics Challenge</i>	<b>2015, 2016</b>
	<b>Special prize ‘in appreciation of meritorious performance’</b> <i>Maharashtra State Talent Search Examination, India</i> In the top 2% of 106000 entrants; Eligible for the National Talent Search Examination	<b>2014</b>
COMPUTER SKILLS	<ul style="list-style-type: none"> <li>• Packages: NumPy, SciPy, SymPy, Matplotlib (Python packages)</li> <li>• Languages: Python, MATLAB, limited experience in C and R</li> <li>• Operating Systems: MS Windows, MacOSX, Unix/Linux (Used University of Bristol’s BlueCrystal3 HPC; limited experience writing Bash scripts)</li> <li>• Software: Maple, RStudio, Wolfram Mathematica, GitHub, MS Office</li> <li>• Typography: L<sup>A</sup>T<sub>E</sub>X</li> </ul>	
MEMBERSHIPS AND AFFILIATIONS	Student Member, Institute of Mathematics and it’s Applications, UK	<b>Dec 2019 - Present</b>

	Student Member, Australian Mathematical Society, Australia	<b>Jul 2020 - Present</b>
LANGUAGES	English	<b>Native proficiency</b>
	Marathi	<b>Native proficiency</b>
	Hindi	<b>Professional working proficiency</b>
	French	<b>Intermediate proficiency</b>
REFERENCES	<b>Available upon request</b>	