

# Kevin Jose

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RESEARCH INTERESTS Computational mechanics, mathematical modeling, applied mathematics, vibrations & wave propagation, musical acoustics, meta-materials

EDUCATION **University of Southampton**, Southampton, UK  
Marie Sklodowska-Curie Fellow & PhD student May 2019 - Sept 2022 (expected)

**Indian Institute of Technology Kanpur**, Kanpur, India  
B.Tech.-M.Tech. Dual Degree, Mechanical Engineering with a minor in control systems engineering Jul 2012 - Aug 2017

RESEARCH EXPERIENCE **New York University Tandon School of Engineering**, Brooklyn, USA  
School of Engineering Fellow & graduate Researcher Aug 2017 - Oct 2018

JOURNAL PUBLICATIONS

4. **Jose K.**, Ferguson N., and Bhaskar A. “Branched flows of flexural waves in non-uniform elastic plates”. *(Nature) Communications Physics* (2022). **In press.**
3. Bhaskar A., and **Jose K.** “How far does a fold go?” *Extreme Mechanics Letters* 45 (2021): 101261
2. Boldini A.\*, **Jose K.\***, Cha Y., and Porfiri M. “Enhancing the deformation range of ionic polymer metal composites through electrostatic actuation.” *Applied Physics Letters* 112.26 (2018): 261903 (\*Equal Contribution)
1. **Jose K.**, Chatterjee A., and Gupta A. “Acoustics of idakkā: An Indian snare drum with definite pitch.” *The Journal of the Acoustical Society of America* 143.5 (2018): 3184-3194

## Under preparation

3. **Jose K.**, Ferguson N., and Bhaskar A. “Branched flow of flexural waves in cylindrical tubes”. (to be submitted to *Scientific Reports*)
2. **Jose K.**, Ferguson N., and Bhaskar A. “Chladni-like patterns in pillared plates”. (to be submitted to *Scientific Reports*)
1. **Jose K.**, Ferguson N., Ibsen C., and Bhaskar A. “Computationally efficient models for modal vibration of tube-fin banks”. (to be submitted to *Journal of Sound and Vibration*)

CONFERENCE PROCEEDINGS

1. Boldini, A., **Jose K.**, Cha Y., and Porfiri M. “Electrostatic actuation in ionic polymer-metal composites.” In *Nano-, Bio-, Info-Tech Sensors and 3D Systems III*, vol. 10969, p. 1096910. International Society for Optics and Photonics, 2019.

AWARDS, FELLOWSHIPS & SCHOLASTIC ACHIEVEMENTS	<b>Marie Sklodowska-Curie Fellowship ITN</b> University of Southampton.	2019
	<b>Best Mechanical Engineering PhD Qualifying Exam Performance</b> NYU Tandon School of Engineering.	2018
	<b>School of Engineering Fellowship</b> NYU Tandon School of Engineering.	2017
	<b>Best Intern Award</b> Whirlpool Global Technology & Engineering Center, Pune.	2015
	<b>IIT-Joint Entrance Exam All India Rank 792</b> out of ~0.47 million candidates (99.8 percentile).	2012
	<b>KVPY Fellowship Award (Declined)</b> National fellowship for students interested in research careers in science. Awarded by the Government of India & Indian Institute of Science, Bangalore.	2012
RESEARCH TALKS	<b>Elasticity Day, University College London (Upcoming)</b> Branched flows of flexural waves in elastic plates and cylindrical shells	2022
	<b>11th European Solid Mechanics Conference, NUI Galway (Upcoming)</b> Chladni-like patterns in pillared plates	2022
	<b>18th European Mechanics of Materials Conference, University of Oxford 2022</b> Analysis and computations for metamaterial with negative apparent coefficient of thermal expansion	2022
	<b>ISVR Research Seminar, University of Southampton <a href="#">[Link]</a></b> Acoustics of idakkā: a drum with “perfect pitch”	2022
	<b>EUROMECH Colloquim 626, Keele University, Online</b> Branched flow of flexural waves in random elastic plates	2021
	<b>Elasticity Day, Isaac Newton Institute, University of Cambridge, Online</b> Persistence behaviour of an elastic strip folded on its edge: the role of twist & Poisson’s coupling ( <i>with Prof. A. Bhaskar</i> )	2021
	<b>Applied Math Seminar, University of Southampton, Online</b> Branched flow of flexural waves in random elastic plates	2021
	<b>Applied Math Seminar, University of Southampton</b> Persistence of folding in an elastic strip	2021
	<b>Dynamics Group Seminar (ISVR), University of Southampton, Online</b> Continuum model and effective medium approaches to dynamics of tube & fin assemblies	2020

PROFESSIONAL SERVICE	<p><b>Reviewer</b> for <a href="#">The European Physical Journal Plus</a> (Springer). IF (2020) ~ 3.91. Aug 2021</p> <p><b>Organizer</b> of the <a href="#">InDEStruct Workshop</a>. ~70 attendees. Sept 2021</p>
INDUSTRIAL EXPERIENCE	<p><b>Boston Consultancy Group</b>, Gurgaon, India External Consultant (Associate) Nov 2018 - May 2019</p> <p><b>Vestas aircoil A/S</b>, Lem, DK Visiting PhD student Jan 2020 - Sept 2021</p> <p><b>Dinex A/S</b>, Middelfart, DK Visiting PhD student Oct 2020 - Nov 2020</p>
SUMMER INTERNSHIPS	<p><b>Sigapore University of Technology and Design</b>, Upper Changi, Singapore Visiting Student May 2016 - July 2016</p> <p><b>Whirlpool Global Technology &amp; Engineering Center</b>, Pune, India Summer Intern May 2015 - July 2015</p>
TEACHING & MENTORING	<p><b>Teaching Assistant</b> <i>NYU Tandon</i>: Mechanics of Materials Laboratory (Fall 2017 &amp; Spring 2018) <i>IIT Kanpur</i>: Mechanics of Solids (Spring 2017); Complex Analysis (Fall 2016)</p> <p><b>Mentoring</b> <i>NYU Tandon</i>: Mentored 2 undergraduate student and 1 masters student in their summer projects <i>IIT Kanpur</i>: Delivered lectures and workshops with more than 300 attendees/participants on hobbyist electronics. Mentored 8 undergraduate summer projects.</p>
OUTREACH ACTIVITY	<p>Southampton Science and Engineering Festival May 2022</p> <p>Macneil Park Family Earth Fair June 2018</p> <p>Sci-Ed Innovators STEM Expo April 2018</p> <p>NYU Tandon School of Engineering Research Expo April 2018</p> <p>Clara Burton High School, Brooklyn December 2017</p>
REFERENCES	<p><b>Prof. Atul Bhaskar</b>, (<a href="mailto:a.bhaskar@sheffield.ac.uk">a.bhaskar@sheffield.ac.uk</a>) University of Sheffield, UK University of Southampton, UK</p> <p><b>Prof. Anurag Gupta</b>, (<a href="mailto:ag@iitk.ac.uk">ag@iitk.ac.uk</a>) Indian Institute of Technology Kanpur, India</p> <p><b>Dr. Neil Ferguson</b>, (<a href="mailto:nf@isvr.soton.ac.uk">nf@isvr.soton.ac.uk</a>) University of Southampton, UK</p>

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