# Kevin Jose



#### Education

- 2019-2023 **Doctor of Philosophy**, Engineering & Environment, University of Southampton Analytical and numerical investigations of wave propagation in random elastic structures and modal vibrations of periodic media.
- 2012-2017 **Master of Technology**, *Mechanical Engineering*, Indian Institute of Technology Kanpur Experimental and numerical investigation of the acoustics of a drum involving string membrane contact.
- 2012-2017 **Bachelor of Technology**, *Mechanical Engineering*, Indian Institute of Technology Kanpur Minor: Control Systems Engineering.

  Coordinator of the Electronics Club

### Work Experience

- 2023- University of Cambridge, Cambridge, UK Research Assistant
- 2019-2022 University of Southampton, Southampton, UK Marie Skłodowska-Curie Fellow
- 2018-2019 **Boston Consulting Group**, Gurgaon, India External Consultant (Associate)
- 2017-2018 New York University Tandon School of Engineering, Brooklyn, USA School of Engineering Fellow

#### Refereed Journal Publications

- **Jose, K.**, Ferguson N., and Bhaskar A. "Branching flows of flexural waves in non-uniform elastic plates" *Communications Physics* 5: 152.
- 2021 Bhaskar A., and Jose K. "How far does a fold go?" Extreme Mechanics Letters 45: 101261.
- 2018 **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: 3184-3194.
- 2018 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: 261903 (\*Co-first authors).

#### Preprint

**Jose, K.**, Ferguson N., and Bhaskar A. "Branched flows of flexural elastic waves in non-uniform cylindrical shells" arXiv:2211.02181 [physics.class-ph] (under revision at PLoS ONE).

# Conference Proceedings

2019 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.

# Awards, Fellowships & Scholastic Achievements

- 2019 Marie Sklodowska-Curie Fellow ITN, University of Southampton
- 2018 Best PhD Qualifying Exam Performance, NYU Tandon School of Engineering
- 2015 Best Intern Award, Whirlpool Global Technology & Engineering Center, Pune
- 2012 IIT-Joint Entrance Exam All India Rank 792 out of ~0.47 million candidates (99.8 percentile).
- 2012 **KVPY Fellowship**, Government of India & Indian Institute of Science, Bangalore National fellowship for students interested in research careers. (Declined)

	Research Talks (Selected)
2022	11th European Solid Mechanics Conference, NUI Galway
	Chladni-like patterns in pillared plates
0000	

2022 Elasticity Day, University College London
Branched flows of flexural waves in elastic plates and cylindrical shells

2022 **18th European Mechanics of Materials Conference**, *University of Oxford*Analysis and computations for metamaterial with negative apparent coefficient of thermal expansion

2022 **ISVR Research Seminar**, *University of Southampton* Acoustics of idakkā: a drum with "perfect pitch"

2021 **EUROMECH Colloquium 626**, *Keele University*, Online Branched flow of flexural waves in random elastic plates

2021 **Elasticity Day**, Isaac Newton Institute, University of Cambridge, Online Persistence behaviour of an elastic strip folded on its edge: the role of twist & Poisson's coupling (with Prof. A. Bhaskar)

# Secondments & Internships

2020-2021	Vestas aircoil A/S, Lem, DK	Visiting PhD student
Oct-Nov '21	Dinex A/S, Middelfart, DK	Visiting PhD student
May-Jul '16	Singapore University of Technology & Design, Upper Changi, Singapore	e Visiting student
May-Jul '15	Whirlpool Global Technology & Engineering Center, Pune, India	$Summer\ intern$

### Professional Service

Aug '20 Reviewer for The European Physical Journal Plus (Springer)  $IF (2020) \sim 3.91$ 

Sep '21 **Organizer** of the InDEStruct Workshop ~70 attendees.

#### References

Available on request