Kevin Jose

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Education

University of Southampton, Southampton, UK
PhD (and Marie Sklodowska-Curie Fellow) — May 2019 - Jun 2023
Computational Engineering and Design Group

Indian Institute of Technology Kanpur, Kanpur, India
BT-MT Dual Degree, Mechanical Engineering — Jul 2012 - Aug 2017
with a minor in control systems engineering

Research Experience

University of Cambridge, Cambridge, UK
Research Associate, Cavendish Laboratory — Mar 2023 - Apr 2024
Research Associate, Department of Engineering — Mar 2024 - Present

New York University, Brooklyn, USA
School of Engineering Fellow — Aug 2017 - Oct 2018

Singapore University of Technology and Design, Upper Changi, Singapore
Visiting Student — May 2016 - Jul 2016

Industrial Experience

Vestas aircoil A/S, Lem, DK
Visiting PhD student — Jan 2020 - Sep 2021

Boston Consulting Group, Gurgaon, India
Associate — Nov 2018 - May 2019

Whirlpool Global Technology & Engineering Center, Pune, India
Summer Intern — May 2015 - Jul 2015

Journal Publications

6. Evans M., . . . , **Jose K.**, . . . et. al. "Developments and applications of the OPTIMADE API for materials discovery, design, and data exchange". *Digital Discovery* (Accepted). arXiv:2402.00572v2
5. **Jose K.**, Ferguson N., and Bhaskar A. "Branched flows of flexural elastic waves in non-uniform cylindrical shells". *PLoS ONE* 18.5 (2023): e0286420
4. **Jose K.**, Ferguson N., and Bhaskar A. "Branched flows of flexural waves in non-uniform elastic plates". *Communications Physics* 5 (2022): 152
   - Associated invited blog post on Nature Portfolio Physics Community
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

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 & Scholastic Achievements

Best Mechanical Engineering PhD Qualifying Exam Performance 2018
New York University

Best Intern Award 2015
Whirlpool Global Technology & Engineering Center, Pune

IIT-Joint Entrance Exam All India Rank 792 2012
out of ∼0.47 million candidates (99.8 percentile)

KVPY Fellowship Award (Declined) 2012
Awarded by the Gov. of India & Indian Institute of Science, Bangalore

Research Talks

Open Databases Integration for Materials Design, EPFL 2023
11th European Solid Mechanics Conference, NUI Galway 2022
Elasticity Day, University College London 2022
18th European Mechanics of Materials Conference, University of Oxford 2022
ISVR Research Seminar, University of Southampton [Link] 2022
EUROMECH Colloquium 626, Keele University, Online 2021
Elasticity Day, Isaac Newton Institute, University of Cambridge, Online 2021
Applied Math Seminar, University of Southampton 2021

Professional Service

Reviewer for EPJ Plus (Springer). IF (2020) ∼ 3.91 2021
Organizer of the InDEStruct Workshop. ∼70 attendees 2021

Teaching & Mentoring

Teaching Assistant
NYU Tandon: Mechanics of Materials Laboratory (Fall 2017 & Spring 2018)
IIT Kanpur: Mechanics of Solids (Spring 2017); Complex Analysis (Fall 2016)

Mentoring
NYU Tandon: Summer projects mentoring for 3 summer projects
IIT Kanpur: Delivered lectures and workshops with more than 300 attendees/participants on hobbyist electronics. Mentored 8 summer hobby projects

Outreach Activity

Physics at Work, Cambridge 2023
Southampton Science and Engineering Festival 2022
Macneil Park Family Earth Fair 2018
Sci-Ed Innovators STEM Expo 2018
NYU Tandon School of Engineering Research Expo 2018
Clara Burton High School 2017

References

Available on request

Last updated on April 24, 2024