

Nikhil Suman

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Education

Indian Institute of Science

Doctor of Philosophy (Ongoing)

Dec 2021 - Present

Area: High-temperature deformation behavior of welded joints

Indian Institute of Technology Ropar

Master of Technology

July 2019- July 2021

Thesis Title – Studies of Cavitation Peening and its Effect on Fatigue Behavior of Materials

Cochin University of Science & Technology

Bachelor of Technology

July 2013 – May 2017

Area of Interest

Creep, Fatigue, DIC, Mechanical Behavior of Materials, Solid Mechanics, Peening, Numerical Modeling

Skills

SEM, UTM, Python Programming, ABAQUS, SolidWorks, CNC, MATLAB, Origin

Conferences/ Publications

1. **N. Suman** and S. C. Roy, "Cyclic Behavior of Material after Single Loading of Cavitation Peening," *Mater. Today Proc.*, vol. 62, pp. 7480–7486, Apr. 2022, doi: 10.1016/j.matpr.2022.03.508. ([Link](#))
2. **N. Suman** and S. C. Roy, "A Step Towards the Numerical Study of Cavitation Peening and its Effect on Fatigue Behavior," in *8th International Conference on Creep, Fatigue and Creep-Fatigue Interaction.*, IGCAR, Kalpakkam, India, 2021.
3. **N. Suman** and S. C. Roy, "Cyclic Behavior of Material after Single Loading of Cavitation Peening," in *9th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering*, Rupnagar, India, 2021.
** Published in the "Materials Today: Proceedings".

References

[Prof. Vikram Jayaram](#)

Professor, Department of Materials Engineering

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[Prof. Praveen Kumar](#)

Associate Professor, Department of Materials Engineering

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