

Anubhab Majumder

Updated February 18, 2021

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Research interests Conceptual design synthesis, multiple-state mechanical devices, creativity, kinematics and robotics

Education **Indian Institute of Science (IISc)** Bengaluru, Karnataka
Ph. D. in Engineering August 2018 – Present
Supervisor: Prof. Amaresh Chakrabarti. *CGPA: 8.83.*

Indian Institute of Technology (ISM) Dhanbad Dhanbad, Jharkhand
M. Tech. in Mech. Engg. (spl. Machine Design) August 2016 – June 2018
Supervisor: Dr. Sanjoy K. Ghoshal. *OGPA: 9.89.*

Govt. College of Engg. and Textile Technology Berhampore, West Bengal
B. Tech. in Mechanical Engineering August 2012 – June 2016
DGPA: 9.00.

Honors and scholarships Gold Medal (Indian Institute of Technology (ISM), Dhanbad) 2018
Best Paper Award (ICMMRE 2017) 2017
The Central Sector Scheme of Scholarship for College and University Students (MHRD, Department of Higher Education, Government of India)

Publications Patra, A., Patel, M., Chattopadhyay, P., **Majumder, A.**, Ghoshal, S. K. (2020). A Bio-inspired Climbing Robot: Dynamic Modelling and Prototype Development. *In Recent Advances in Mechanical Engineering* (pp. 191-209). Springer, Singapore.

Chattopadhyay, P., Ghoshal, S. K., **Majumder, A.** (2020). IMPLEMENTATION OF PIECEWISE SINE FUNCTIONS ON LIMBLESS ROBOT LOCOMOTION. *International Journal of Robotics and Automation*, 35(4).

Majumder, A., Patra, A., Patel, M., Chattopadhyay, P., Ghoshal, S. K. (2019). Locomotion Study of a Hyper-redundant Modular Robot Using Artificial Neural Networks. *In Proceedings of the Advances in Robotics 2019* (pp. 1-6).

Chattopadhyay, P., **Majumder, A.**, Dikshit, H., Ghoshal, S. K., Maity, A. (2018, June). A bio-inspired climbing robot: design, simulation, and experiments. *In IOP conference series: materials science and engineering* (Vol. 377, No. 1, p. 012105). IOP Publishing.

Chattopadhyay, P., Dikshit, H., **Majumder, A.**, Ghoshal, S., Maity, A. (2018, April). Dynamic analysis of a bio-inspired climbing robot using ADAMS-Simulink co-simulation. *In AIP conference proceedings (Vol. 1952, No. 1, p. 020015). AIP Publishing LLC.*

Chattopadhyay, P., Ghoshal, S., **Majumder, A.**, Dikshit, H. (2018). Locomotion Methods of Pipe Climbing robots: A Review. *Journal of Engineering Science and Technology Review*, 11(4).

Workshops Attended **PBL South Asia Training Workshop for Faculty and Advanced Students** at the Indian Institute of Technology, Bombay on 19 – 30 Aug 2019.

Volunteering Experiences **Student Organising Committee Member** 7 Jan 2021 – 10 Jan 2021
8th International Conference on Research into Design, IIT, Bombay, India.

Volunteer/ Host 16 Dec 2019 – 17 Dec 2019
Pre-Conference Workshop of 7th International Conference on PLMSS.

Volunteer 28 Jun 2019 – 29 Jun 2019
1st International Conference on Industry 4.0 and Advanced Manufacturing, IISc, Bangalore, India.

Mentor 8 May 2019 – 12 May 2019
"IISc DBox" - The Design Thinking Workshop held at Kendriya Vidyalaya, IISc organized by CPDM, IISc, Bangalore.

Local Organising Committee Member 9 Jan 2019 – 11 Jan 2019
7th International Conference on Research Into Design, IISc, Bangalore, India.

Skills **Software**
Proficient in: MSC ADAMS, AUTOCAD.
Familiar with: MAPLE, MATLAB.

Languages
Bengali, English, Hindi

Vocational Training **Damodar Valley Corporation** 13 Jul 2015 – 31 Jul 2015
Mejia Thermal Power Station, West Bengal, India

Professional memberships **Quarterly Franklin Membership - London Journals Press.** Sep 2018 – Present
Membership ID: LS37324