



Mr. Chandan Ram

Position: Project Research Scientist

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Academic Qualification:

- M.Sc in Sports and Exercise Physiology with Exercise in gender specialization (Midnapore College Autonomous; Affiliated by Vidyasagar University, West Bengal, India)
- B.Sc in Human Physiology (Calcutta University, West Bengal, India).

RESEARCH – PUBLICATIONS (PEER REVIEW JOURNALS)

1. Review work on - Safety Measurements & Precaution of Measuring Maximum Aerobic Capacity by Direct Method During Pandemic: A Systematic Review.
2. Morphometric Analysis of Key Foot Dimensions across Different Foot Sizes: A Pilot Study. Ram, C., Maity, A., Kumar, SD., Jain, T., (2025) published at International Journal of Physical Education, Fitness and Sports. <https://doi.org/10.54392/ijpefs2547>
3. Exploring the Impact of BMI on Foot Anthropometric Dimensions: A Pilot Study. Maity, A., Ram, C., Kumar, SD., Jain, T., (2025) published at International Journal of Physical Education, Fitness and Sports. <https://doi.org/10.54392/ijpefs2617>
4. Prevalence and Morphological variation of different foot types in Males: An anthropometric Perspective among North-eastern Indian Populations Maity A, Ram C,

Jain T, Das Kumar S. International Journal of Morphology. 2026; issue 4, volume 44. (Accepted)

5. Biomechanical and Occupational Risk Evaluation of Plantar Pressure Distribution under Barefoot Static Conditions among Indian Adult Population: A Pilot Study. Maity A, Ram C, Alam S, Jain T, Das Kumar S. International Journal of Occupational Safety and Ergonomics; 2026. (Under Review – Phase 2)
6. Evaluating the Impact of Body Mass Index on Kinetic Responses and Temporal Loading Patterns during Barefoot Walking among Indian Adults: A Pilot study Ram C, Das Kumar S, Jain T, Alam S, Maity A. International Journal of Emerging Multidisciplinaries: Biomedical and Clinical Research. (Under Review)
7. Translational Application of Resin-Based Stereolithography in Pre-Production Functional Prototyping for Footwear development: A Narrative Review Maity A, Ram C, Alam S. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture. (Under Review)
8. Evaluation of Foot Anthropometric Dimensions among North-Eastern Indian Young Population: A Pilot Study Ram C, Jain T, Das Kumar S, Pal P, Alam S, Maity A. International Journal of Anthropology and Ethnology. (Communicated)

RESEARCH – PROJECTS

- **Collaborative Pilot Project: Design and Development of Customized 3D-Printed Orthotic Insoles in collaboration with the Department of Health & Family Welfare, Government of Sikkim.**

Associated With *SneakTech Solutions Pvt. Ltd.*; Duration: (July 22-30, 2026)

**INTELLECTUAL PROPERTY RIGHTS (IPR) PROTECTION THROUGH PATENTS
REGISTRATION:**

SL. No.	Title	Field of invention	Patent No.	Type of Patent	Status
1.	SYSTEM AND METHOD FOR PRODUCING CUSTOMIZED ORTHOTIC FOOTWEAR	Bio-Medical Engineering	IN2025##### A1	Utility	Published
2.	SYSTEM AND METHOD FOR DESIGNING AND FABRICATING A MEDIAL ARCH- SUPPORTED ORTHOTIC SOLE	Computer Science	IN2025##### A1	Utility	Published
# = Number intentionally omitted for confidentiality purposes					

Area of Expertise

Strength and Conditioning, Ergonomics, Biomechanics, Sports & Exercise Physiology