



Mr. Ayan Maity

Position: Project Research Scientist

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Academic Qualification:

- M.Sc in Human Physiology; Ergonomics and Sports Physiology Specialization
(Midnapore College Autonomous; Affiliated by Vidyasagar University, West Bengal, India)
- B.Sc in Human Physiology (Vidyasagar University, West Bengal, India)

RESEARCH – PUBLICATIONS (PEER REVIEW JOURNALS)

- 1. Exploring the Impact of BMI on Foot Anthropometric Dimensions: A Pilot Study.**
Maity A, Ram C, Das Kumar S, Jain T. Exploring the Impact of BMI on Foot Anthropometric Dimensions: A Pilot Study. *International Journal of Physical Education, Fitness and Sports*. 2026, 17; 15(1):82-9.
- 2. Morphometric Analysis of Key Foot Dimensions Across Selected Shoe Sizes in Young Indian Adults: A Pilot Study**
Ram C, Maity A, Das Kumar S, Jain T. Morphometric Analysis of Key Foot Dimensions Across Selected Shoe Sizes in Young Indian Adults: A Pilot Study. *International Journal of Physical Education, Fitness and Sports*, 2025; 14(4):85-98.
- 3. Identifications of Different Types of Foot in the Indian School Going Children: A Pilot Study.**
Ahmed, Rizwan; Sandhu, Kamalpreet; Maity, Ayan; Pal, Madhusudan. Identification of different types of foot in Indian schoolchildren: A pilot study. *BLDE University Journal of Health Sciences* 2025; 10(2): 98-102.

4. Risk of Injury Prediction during landing from 33 cm height: Biomechanics Approach for sports application

Jana R, Singh K, Bhanot N, **Maity A**, Kumar SD, Pal M. Risk of injury prediction during landing from 33 cm height: Kinetic approach for sports application. *Indian J Physiol Pharmacol*. 2025;69:232-40.

5. Assessment of Foot Type and Comparison of Anthropometric Foot Dimension between Foot Types of Indian Population: A Pilot Study.

Jana R, **Maity A**, Kumar SD and Pal M. Assessment of foot type and comparison of anthropometric foot dimension between foot types of Indian population: A pilot study. *Al Ameen J Med Sci* 2025; 18(1): 32-41.

6. Comparative Analysis of Kinetic Responses and Injury Risk during Landing from 45 cm Height: A Study of Barefoot vs. Sports Shoes Conditions.

Maity, A., Chauhan, B. R., Juneja, H., Kumar, M., & Pal, M. Comparative Analysis of Kinetic Responses and Injury Risk During Landing from 45 cm Height: A Study of Barefoot vs. Sports Shoes Conditions. *International Journal of Physical Education, Fitness and Sports*, 2024;13(3), 64–76.

7. Anthropometric parameters of Right and Left Foot among Indian adults: A Pilot Study.

Maity A, Jana R, Kumar SD, Ahmed R and Pal M. Anthropometric parameters of right and left foot among Indian adults: A pilot study. *Al Ameen J Med Sci* 2024; 17(4): 284-293.

8. Foot Dimension among Indian Population: A Pilot Study.

Jana, R., Maity, A., Ahmad, R., Das Kumar, S., & Pal, M. Foot Dimension among Indian Population: A Pilot Study. *International Journal of Physical Education, Fitness and Sports*, 2024; 13(3), 10–21.

9. Kinetics Assessment of Foot Injury during Vertical Jump with Varying Heights at Barefoot Condition.

Kumar SD, Singh K, Chauhan BR, **Maity A**, Kumar M, Juneja H, et al. Kinetics assessment of foot injury risk during vertical jump from varying heights in barefoot condition. *J Foot Ankle*. 2024;18(3):342-9.

10. 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. Accepted by *International Journal of Morphology* (2026). Article will be published in issue 4, volume 44, 2026.

SCIENTIFIC REPORTS

Presented in Seminar/ Conferences (Abstracts):

- Ayan Maity, Rizwan Ahmad, Rajib Jana, Madhusudan Pal; **Foot anthropometric parameters in relation to footwear design of Indian Population: A Pilot Study**, HWWE-2024, December 13 - 15, 2024, University of Calcutta, Kolkata, West Bengal.
- Ananya Bhardwaj, Ayan Maity, Madhusudan Pal; **Design of Unisex multiutility jackets for user satisfaction: Design Approach**, HWWE-2024, December 13 - 15, 2024, University of Calcutta, Kolkata, West Bengal.
- Ayan Maity; **Evaluation of Fitness; Bicycle Ergometer & Heart rate monitor**. Midnapore College Autonomous 1st – 3rd Feb; 2023, Midnapore, West Bengal.

REVIEWER OF PEER REVIEW JOURNALS

- International Journal of Engineering Research & Technology (IJERT); ISSN: 2278-0181
- Advances in Science, Technology and Engineering Systems Journal (ASTESJ); ISSN: 2415-6698.
- Journal of Engineering Research and Sciences (JENRS); ISSN: 2831-4085.

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)

- **Research and Development of Ergonomically Designed and Biomechanically Optimized Customized Orthotic Devices for Human Performance Enhancement and Injury Risk Reduction**

Associated With *SneakTech Solutions Pvt. Ltd.*; Duration: (Ongoing)

- **Assessment of Biomechanical Responses during Landing from a Standardized Height Using Different Sports Footwear and Insole Configurations: An Evaluation of GRF, Loading Rates, Impact Attenuation, and Postural Stability.**

Associated With FDDI; *Duration: (Oct 2024 - Dec 2024)*

- **A Case Study on a National-Level Air Gun Shooter: Comparative Balance and Postural Stability Assessment Using 3D Force Plate Analysis under Standard Sports Footwear and Specialized Shooting Footwear Conditions - A Kinetic Perspective.**

Associated With FDDI; *Duration: (Aug 2024 - Oct 2024)*

- **Effects of Training on Anthropometric, Physical Fitness, and Physiological Variables of Male Cricket Players.**

Associated With Midnapore College Autonomous; *Duration: (Jun 2022 - Jun 2023)*

**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

Human Physiology, Ergonomics, Biomechanics, Exercise Physiology