



## PROFILE

1. Full Name :Dr Shankarashis Mukherjee
2. Designation :Assistant Professor(Stage 3)
3. Specialization :Envt and Exercise Sc, Ergonomics/HFE, HSE and HRM, Public Health Policy Analytics, Biostatistics and Research Methodology
4. Contact Information : Human Performance Analytics and Facilitation Unit  
Department of Physiology,  
University Colleges of Science and Technology,  
UNIVERSITY of CALCUTTA,  
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5. Academic Qualifications:

Degree	Institution
B Sc (Honors)	Presidency College (then under University of Calcutta)
M Sc	University of Calcutta
PhD	University of Calcutta

- Qualified in NET in Life Sciences conducted by CSIR

6. Positions holding/ held:

- Member, PG Board of Studies, and Coordinator(jointly), PhD Course WorkProgramme, Department of Physiology, University of Calcutta
- Coordinated Refresher Course and Orientation Programmes organized by UGC-Human ResourcesDevelopment Centre (formerly Academic Staff College), University of Calcutta

7. Research Interest:

- Management of Obesity through Traditional Exercise,
- Noise and its Effect on the Health Status of Children,
- Impact of Climate Change on Human Performance,
- Mathematical Modeling for Human Performance Improvement including Accident Prevention

8. Research Guidance:

- Number of Researchers pursuing PhD :06

9. Projects:

Current Projects:

- A Study on the Impact of Indian Classical Dancing on the Body Composition and Psycho – Physiological Variables of Bengalee Females
- A Study on the Effect of Noise on the Health Status of Children
- A Study on the Impact of Climate Change on the Physiological Status and Work Performance of Male Agricultural Workers

10. Select List of Publications:

**A. Journals:**

1. A Chatterjee, S Chatterjee, N Banerjee, S Chatterjee, T Santra, S Mukherjee, Assessment of Physiological Strain Due to Work and Exposure to Heat of Working Environments in Male Paddy Cultivators, *Advances in Applied Physiology*, 1 (1), 8 - 11, 2016. doi: 10.11648/j.aap.20160101.12.
2. N Banerjee, S Chatterjee, S Chatterjee, K Ghosh, S De, S Mukherjee, Impact of Indian Traditional Recreational Activity on Novel Anthropometric Markers of Diabetes in Bengali Females, *IP (ISSN: 2347-1505)*, 3 (1), 11 – 15, 2015. Doi: 10.21088/ip.2347.1506.3115.1.
3. S Mukherjee, T Santra, N Banerjee, S Chatterjee, S Chatterjee, Relationship between Some Anthropometric and Lung Function Variables: A Study on Occupationally Engaged Bengalee Females, *S & C (ISSN 0036 8156)*, 81 (1 - 2), 41 – 43, 2015.
4. S Chatterjee, A Chatterjee, S Chatterjee, N Banerjee, T Santra, S Mukherjee, A Study to Evaluate the Effect of Occupational Noise on Hearing Threshold in Human Resources Occupationally Engaged in Organized Sector, *IP (ISSN: 2347-1505)*, 3 (1), 35 – 39, 2015. Doi: 10.21088/ip.2347.1506.3115.5.
5. S Chatterjee, N Banerjee, S Chatterjee, A Chatterjee, D Banerjee, S Mukherjee, Indian Classical Dancing: An Approach for Obesity Management, *IP (ISSN: 2347-1505)*, 3 (1), 29 – 34, 2015. Doi: 10.21088/ip.2347.1506.3115.4.
6. N Banerjee, S Chatterjee, S Mukherjee, Recognition of Women in Science in India, *Everyman's Science (ISSN 0531 - 495X)*, XLIX (5), 286 - 290, 2015.
7. S Bhattacharjee, N Banerjee, S Chatterjee, A Chatterjee, S De, S Mukherjee, Impact of Receiving Training in Football on Obesity and Physical Fitness Status: A Study in Bengali Male Adolescents, *IP (ISSN: 2347-1505)*, 3 (1), 41 - 47, 2015. Doi: 10.21088/ip.2347.1506.3115.6.
8. A Chatterjee, S Chatterjee, S Chatterjee, T Santra, N Banerjee, S Mukherjee, Musculoskeletal Discomfort in Computer Operators of Organized Sector : Tracing the Link with Obesity Status, *IP (ISSN: 2347-1505)*, 3 (1), 23 – 28, 2015. Doi: 10.21088/ip.2347.1506.3115.3.
9. P Mondal, N Banerjee, S Chatterjee, S Chatterjee, K Ghosh, S Mukherjee, Pedestrian Death and Injury in Road Accidents in Kolkata in Last Decade: A Major Public Health Challenge, *IP (ISSN: 2347-1505)*, 3 (1), 69 - 74, 2015. Doi: 10.21088/ip.2347.1506.3115.10.
10. S Das, S Mukherjee, D Banerjee, Impact of Posture on Health Status of Welders in Different MSME in West Bengal, *IP (ISSN: 2347-1505)*, 3 (1), 55 -59, 2015. Doi: 10.21088/ip.2347.1506.3115.8.
11. S Mukherjee, N Banerjee, S Chatterjee, S Chatterjee, A Chatterjee, T Santra, B Saha, Effect of Bharatnatyam Dancing on Body Composition of Bengalee Female Children, *American Journal of Sports Science and Medicine (ISSN 2333 4592- Print, 2333 4606 - Online)*, 2 (1), 56 - 59, 2014. doi:10.12691/ajssm-2-1-10.

12. S Chatterjee, N Banerjee, T Santra, A Chatterjee, S Chatterjee, S Mukherjee, Impact of Dancing on Obesity Indices on Bengalee Female Adolescents of Kolkata, *American Journal of Sports Science and Medicine (ISSN 2333 4592- Print, 2333 4606 - Online)*, 2 (5A), 40 - 44, 2014. doi: 10.12691/ajssm-2-5A-9.
13. S Mukherjee, N Banerjee, S Chatterjee, S Chatterjee, Effect of Practicing Select Indian Classical Dance Forms on Body Composition Status of Bengalee Females: An Anthropometric Study, *IJBS(ISSN 0972-8503)*, 20, 40 - 48, 2014.
14. N Banerjee, S Chatterjee, S Kundu, S Bhattacharjee, S Mukherjee, Effect of Regular Practicing Bharatnatyam Dancing Exercise on Body Fat of Urban Female Teenagers, *IJCAP (ISSN 2394 - 2118 Print, 2394 - 2126 Online)*, 1 (1), 29 - 33, 2014.
15. S Chaterjee, N Banerjee, S Bhattacharjee, T Santra, A Chatterjee, S Chatterjee, B Saha, S Mukherjee, I Manna, Sports Injuries with Special Reference to Soccer: Causes, Consequences and Prevention Strategies, *American Journal of Sports Science (ISSN: 2330-8559 (Print); ISSN: 2330-8540 (Online)*, 2 (6-1), 24-30, 2014. doi: 10.11648/j.ajss.s.2014020601.15.
16. N Banerjee, T Santra, S Chatterjee, A Chatterjee, S Chatterjee, S Mukherjee, I Manna, A Study on Pulmonary Function of Adolescent Bengalee Trainee Bharatnatyam Dancers, *American Journal of Sports Science and Medicine (ISSN 2333 4592- Print, 2333 4606 - Online)*, 2 (5A), 45 - 47, 2014. doi: 10.12691/ajssm-2-5A-10.
17. S Mukherjee, S Chatterjee, N Banerjee, A Chatterjee, S Ganguly, D Banerjee, K. M. Agrawal, A Study on Auditory Status of Rural School Going Adolescent Males of South Bengal, *S & C (ISSN 0036 8156)*, 80 (11 - 12), 335 - 338, 2014.
18. N Banerjee, S Chatterjee, A Chatterjee, S Kundu, S De, S Mukherjee, Relationship between Two Body Adiposity Estimating Methods: A Study in Bengalee Female Adolescents being Trained in Bharatnatyam Dance, *IP(ISSN 2347 - 1506)*, 2 (2), 41 - 49, 2014.10.21088/ip.2347.1506.2114.1.
19. S Mukherjee, N Banerjee, SChatterjee, SChatterjee, Effect of Kathak Dancing on Obesity Indices in Women of Sedentary Avocations, *S&C (ISSN 0036 8156)*, 80 (9 - 10), 279 - 282, 2014
20. N Banerjee, S Chatterjee, S Chaterjee, A Chatterjee, S Bhattacharjee, T Santra, B Saha, S Mukherjee, I Manna, A Study on Impact of Receiving Training on Football and Sprinting on Body Composition and Physical Fitness Status of Adolescent Males. *American Journal of Sports Science (ISSN: 2330-8559 (Print); ISSN: 2330-8540 (Online)*, 2 (6-1), 19-23, 2014. doi: 10.11648/j.ajss.s.2014020601.14.
21. S Mukherjee, N Banerjee, S Chatterjee, B Chakraborti, Impact of Bharatnattyam Dancing Exercise on Reducing Central Obesity in Adult Bengalee Females, *S & C (ISSN 0036 8156)*, 79 (11 - 12), 503 - 506, 2013.
22. S Mukherjee, N Banerjee, S Chatterjee, Effect of Bharatnattyam Dancing on Body Composition and Physical Fitness Status of Adult Bengalee Females, *IJBS (ISSN 0972-8503)*, 18, 9-15, 2012.

## **B. Books and Book Chapters**

23. N Banerjee, S Chatterjee, A Chatterjee, S Chatterjee, S Mitra, K M Agrawal, S Mukherjee, Climate Change: Occupational Health and Performance Implications for Informal Sector Human Resources (Accepted) in *Managing Sustainable Development: Innovations and Best Practices, Springer (India)*. 2015.
24. N Banerjee, S Chatterjee, S Chatterjee, S Mukherjee, Effect of Bharatnatyam Dancing on Psychological Health Status of Occupationally Engaged Females, *In: User Centered Design and Occupational Wellbeing, (ISBN 978 - 93- 392 - 1970 -3), McGraw Hill* 300 - 304, 2014.

25. S Chatterjee, A Chatterjee, T Santra, S Mitra, S Mukherjee, Relationship Between Audiometric Configuration and BMI in Organized Sector Human Resources, *In: User Centered Design and Occupational Wellbeing*, (ISBN 978 – 93- 392 – 1970 -3), McGraw Hill, 674 – 677, 2014.
26. S Chatterjee, S Chatterjee, P Rajak, A Chatterjee, T Santra, S Mukherjee, Status of Domestic Kitchen Environment and Users Thereof: A Human Factor Analysis, *In: User Centered Design and Occupational Wellbeing*(ISBN 978 – 93- 392 – 1970 -3), McGraw Hill, 305 – 310, 2014.
27. T Santra, S Chatterjee, N Banerjee, S Mukherjee, Global Warming: Impact on Human Health, in *Impact of Pollution: Assessment and Awareness* (ISBN 978-81-921083-8-4), NP, 113 - 119, 2014.
28. A Chatterjee, S Chatterjee, T Santra, S Mukherjee, The Influence of Anthropometric Variables for Development of Musculoskeletal Discomfort Among Computer Operators in Organized Sectors, *In: User Centered Design and Occupational Wellbeing*(ISBN 978 – 93- 392 – 1970 -3), McGraw Hill, 499 – 503, 2014.
29. S Bhattacharjee, S Chatterjee, N Banerjee, T Santra, P Mondal, S Mukherjee, Impact of Bharatnatyam Dancing on Motor Ability of Adult Bengalee Occupationally Engaged Women of Kolkata, *In: User Centered Design and Occupational Wellbeing*(ISBN 978 – 93- 392 – 1970 -3), McGraw Hill, 311 – 315, 2014.
30. S Chatterjee, A Chatterjee, S Chatterjee, S Mukherjee, A Study on Auditory Status of Children Residing in the Vicinity of an Airport, in *Impact of Pollution: Assessment and Awareness* (ISBN 978-81-921083-8-4), NP, 142-146, 2014.
31. A Chatterjee, S Chatterjee, N Banerjee, S Mukherjee, Impact of Noise in Human Resources Occupationally Engaged in Organized Sector, in *Impact of Pollution: Assessment and Awareness* (ISBN 978-81-921083-8-4), NP, 137-141, 2014.
32. S Kundu, N Banerjee, T Santra, S Chatterjee, S Mukherjee, Impact of Bharatnatyam Dancing Exercise on Lung Function of Adult Bengalee Females, *In: User Centered Design and Occupational Wellbeing*(ISBN 978 – 93- 392 – 1970 -3), McGraw Hill, 328 – 331, 2014.
33. T Santra, S Chatterjee, N Banerjee, A Chatterjee, S Mukherjee, Study on Pulmonary Function of Male Wind Instrumentalists of Kolkata, *In: User Centered Design and Occupational Wellbeing*(ISBN 978 – 93- 392 – 1970 -3), McGraw Hill, 488 – 490, 2014.

### **C. Conference and Seminar Volume**

34. S Chatterjee, A Chatterjee, N Banerjee, S Mukherjee, Impact of Occupational Noise in Organized Transportation Sector Human Resources, *In: Ergonomics for Rural Development* (ISBN 978-93-5174-905-9), 161-166, 2013.
35. N Banerjee, S Chatterjee, A Chatterjee, S Mukherjee, Body Fat Estimation by Anthropometric and Impedance Techniques in Bengalee Females Engaged in Sedentary Work, *In: Ergonomics for Rural Development* (ISBN 978-93-5174-905-9), 434 - 440, 2013.
36. A Chatterjee, S Chatterjee, N Banerjee, T Santra, S Mukherjee, Study on Hearing Status of Children Residing Near an Airport, *In: Ergonomics for Rural Development* (ISBN 978-93-5174-905-9), 194 - 199, 2013.
37. T Santra, N Banerjee, S Chatterjee, S Mukherjee, Pulmonary Function in Young Bengalee Females of Sedentary Occupations: Influence of Select Anthropometric Variables on It, *In: Ergonomics for Rural Development* (ISBN 978-93-5174-905-9), 441- 446, 2013.

38. N Banerjee, T Santra, S Chatterjee, S Mukherjee, Prevalence of Overweight in Rural Sedentary Human Resources in Southern Part of West Bengal, India, *In: Ergonomics for Rural Development (ISBN 978-93-5174-905-9)*, 88 - 96, 2013.
39. S Chatterjee, N Banerjee, S Chatterjee, S Mukherjee, Effect of Kathak Dancing on Body Composition in Adult Bengalee Occupationally Engaged Women of Kolkata, *In: Ergonomics for Rural Development (ISBN 978-93-5174-905-9)*, 447 - 453, 2013.
40. N Banerjee, S Chatterjee, S Mukherjee, Dancing Prevents from Being Overweight in Young Females, *Proceedings of the Acharya P C Ray National Young Scientists' Conference*, Kolkata, 125-128, 2012.

#### **D. Other Publications:**

##### **Books edited:**

41. Synergizing Research and Cross Boundary Understanding for A Better Discourse(jointly), UGC-Human Resources Development Centre, University of Calcutta, 2015
42. Science for Shaping the Future of India, Science and Technology at the University of Calcutta: an Overview, (A Publication in Connection with the Centenary Session of The Indian Science Congress 2013; Editor in Chief Professor AmitavaRaychaudhuri), University of Calcutta, 2013
43. Kaleidoscope: A Collection of Articles, (jointly), UGC - Human Resources Development Centre, University of Calcutta,2012
44. Centenary of Post Graduate Teaching in Physiology, University of Calcutta, Centennial Volume, (jointly),University of Calcutta, 2011
45. Modern Trends in Physiology: Molecular Approaches in Understanding Systems Dynamics, (jointly), UGC - Academic Staff College, University of Calcutta, 2011
46. Science, Environment and Education: Weaving an Interdisciplinary Understanding, UGC-Academic Staff College, University of Calcutta, 2010
47. Confluence- A Collection of (jointly), UGC - Academic Staff College, University of Calcutta, 2009

##### **Other articles**

48. S Mukherjee, Advances in Physiological Research: Implications for Public Policy and Health, *IP (ISSN: 2347-1505)*, 3 (1), 7, 2015
49. S Mukherjee, The Unforgettable Contribution of Forgotten Scientist Dr S N De, *IP (ISSN: 2347-1505)*, 3 (1), 8-10, 2015
50. S Mukherjee, Nobel Prize - 2014 in Physiology or Medicine, *S & C (ISSN 0036 8156)*, 80 (11 - 12), 358 - 360, 2014.
51. S Mukherjee, The Origin and Early Years of Cultivation of Physiology as a Basic Science in India: An Overview, *in Centennial Volume*, University of Calcutta, 2011
52. S Mukherjee, Sukhamay Lahiri: A Physiologist Extraordinaire, *in Centennial Volume*,University of Calcutta, 2011.
53. S Mukherjee, Issues in Prevention and Management of Fire Accidents: a Human Factor Engineering Perspective, *in Science, Environment and Education: Weaving an Interdisciplinary Understanding*, UGC-Academic Staff College, University of Calcutta, 245-249

##### **Membership of Learned Societies:**

Life Member: ISCA, PSI, SBC-I, ICN, NSC-I, ISNA, ENDEV

**Invited Lectures Delivered:**

1. Ensuring Quality in Physiological Data Management: Applicability of Six Sigma, Indian Statistical Institute, Kolkata, 2016
2. Management of Obesity Through A Traditional Indian Recreational Activity, UGC Sponsored National Seminar on Trends of Physiological Researches from Laboratory to Community, Vidyasagar University, 2016
3. Quality Management Issues in Human Factor Data: Applicability of Six Sigma, International Ergonomics Conference, HWWE 2015, IIT Bombay, 2015
4. Obesity – Causes and Consequences: Addressing the Challenge through Traditional Exercise, Indian Science Congress (Session 102), University of Mumbai, 2015.
5. Quality Issues in Physiological Data, FIPSPHYSICON, PSI, 2015
6. Determinants and Consequences of Obesity: Impact of Traditional Exercises, UGC Sponsored National Seminar on Current Trends of Research in Human Physiology and Community Health, Vidyasagar University, 2015
7. Humanizing Working Environment and Work for Women: HFE Perspective, International Ergonomics Conference- HWWE 2014, IIT Guwahati, 2014
8. Ergonomics and Its Applicability in Loss Prevention, TEQIP sponsored Workshop on Ergonomics, Government College of Engineering and Textile Technology, 2014
9. Obesity and its Amelioration through Dancing Exercises, PHYSICON, PSI, 2014
10. Occupational Health Scenario in Unorganized Sector in India: Emerging Issues, Centennial Session of the Indian Science Congress, University of Calcutta, 2013
11. Climate Change: Implications for Human Resources in Informal Sector of Eastern India, International Ergonomics Conference - HWWE 2013, VU, 2013.
12. Ergonomics for Human Safety and Productivity, Office Ergonomics Intervention, TEQIP sponsored Workshop on Ergonomics, NERIST, Arunachal Pradesh, 2012
13. Health Implications of Global Warming: Warning for Human Resources in Industries, Indian Science Congress (Session 98), SRM University, Chennai, 2011

**Awards:**

- National Scholar, Ministry of HRD, Government of India
- Felicitated for best performance on Research Publication related IPR issues, Taylor and Francis Author Workshop held in Kolkata, 2015
- Best Research paper Award (twice) at SSTC organized by DST, WB

**Other Notable Activities:**

- Served as Invited Guest Editor, and function as Honorary Member - Editorial Board and Invited Reviewer of many International Journals of repute
- Supervised successfully about 36 PG dissertations and term papers of different universities
- Delivered talks on invitation on science popularization and translation of research outcome at different forum.