

## Declaration

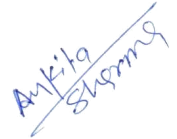
I hereby declare that the work presented in this thesis titled *Facilitative Effect of EEG Neurofeedback on Social Cognition through Mu Suppression* submitted to the Indian Institute of Technology Jodhpur in partial fulfilment of the requirements for the award of the degree of Doctor of Philosophy, is a bonafide record of the research work carried out under the supervision of Dr. Ankita Sharma. The contents of this thesis in full or in parts, have not been submitted to, and will not be submitted by me to, any other Institute or University in India or abroad for the award of any degree or diploma.



*Manju Kumari*  
P14BS004

## Certificate

This is to certify that the thesis titled *Effect of EEG Neurofeedback on Social Cognition through Mu Suppression*, submitted by *Manju Kumari (P14BS004)* to the Indian Institute of Technology Jodhpur for the award of the degree of *Doctor of Philosophy*, is a bonafide record of the research work done by her under my supervision. To the best of my knowledge, the contents of this report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree or diploma.



*Dr Ankita Sharma*  
Ph.D. Thesis Supervisor

## Acknowledgements

First of all, I wish to express my sincere gratitude to my supervisor Dr Ankita Sharma, who introduced me to the fascinating world of cognitive science. I am really thankful to her enthusiastic guidance, invaluable suggestions, constructive criticisms and advices at every step of the thesis work.

I am indebted to her for the freedom she rendered me in doing this work. She contributed significantly in excellent editing of my research manuscripts and thesis to the present shape. I am privileged to have spent time in your lab and to move forward from here taking the benefits of your input and feedback both personally and professionally with me. To her family (Uncle, Aunty, Abhishek Sir and Adya, Avyaan), who always make me feel at home away from home.

I am highly thankful to my doctoral committee members, Dr. Anil Tiwari, Dr. Hari Narayan and Dr. Sushmita Jha for monitoring the progress of my work and offering critical insights from time to time.

To office of Academics, Student office, (Apeksha Ma'am, Dheeren Sir, Gaurav Sir, Rashmi Ma'am, Swati Ma'am) and all staff members for always ready to help at every step.

To security Team IIT Jodhpur, for taking care of me during my data collection from leaving the campus to return.

To the NGO's Head, special educators and doctors from ASHA AWWA school and SAARTHY foundation (Sevadas Sir, Surbhi Ma'am, Rajesh Ma'am, Seema Ma'am Shobha Ma'am and military personals).

To all the participants from IIT Jodhpur, Govt Girls College Jodhpur and JIET college Jodhpur.

To all the special children and their parents/caretakers for their precious time and support.

To Hem Singh Bhagela Sir, my gym instructor to strengthen me at gym and supporting in data collection. To his family, his cousins Hina, Yashwant and Huma for their valuable time and support.

To a superb bunch of people my friends Arpita, Erum, Hiteshi, Nidhi, Pramod sir, Shalu, Sachin, Vivek. I will never forget the group effort for my "Tea time" and many special memories! You are all rock stars; always have faith in the top-notch skills and the special souls that you have.

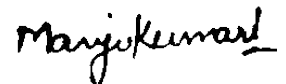
To my grandparents: Dada Ji, at this moment I am missing you the most, Dadi, Nana Ji, Nani for raising me like this. You taught me to have the discipline and drive to succeed that meant I could (finally) get through this PhD in one piece.

To my Mummy and Papa: saying thank you just doesn't cut it, you gave me world to fly high. To my siblings Atul, Anjali and Gaurav. To my: (Dinesh, Mahesh) mama ji, (Santosh, Renu) mami ji, (Anil, Praveen, Naveen) chacha ji (Neelam, Anju, Meera) chachi ji, (Pravesh, Anushka, Parul, Nidhi, Niti, Anivesh, Ayush, Nischay, Yogi, Himanshu, Chakresh, Yogita) cousins for such a beautiful and blessed journey with you. To my in-laws: Mummy Ji, Papa Ji for your constant love and support.

To my Husband, Sumit: You embrace the things that I am passionate about like they are your own dreams. You recite the title of my thesis like you are just as proud as I am to be doing this work. Every wall I felt I hit, you helped me to knock it down and plough through by believing in me. Nothing is ever too hard when you are beside me.

To all who helped me directly or indirectly in achieving my goal.

To Almighty GOD!

  
*Manju Kumari*  
Ph.D. Student

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## List of Abbreviations and Symbols

<b>Abbreviations</b>	<b>Full form</b>
ADHD	Attention deficit hyperactivity disorder
AMP	Amplitude
ASD	Autism Spectrum Disorder
ASQ	autism-spectrum quotient
ARC	Autism Research Centre
Attn	Attention
Awr	Awareness
C3 & C4	primary somatosensory cortex, <i>Brodmann</i> area 4
Cog	Cognition
Com	Communication
EEG	Electro-encephalogram
Hz	Hertz
KWH	Kruskal Wallis H test
LOM	Locomotion
Imag	Imagination
IQ	Intelligence Quotient
M	Mean
Moti	Motivation
NFT	Neuro Feedback Training
NGO	Non government organization
Occ	Occupation
RRB	Restricted and Repetitive behaviour
RMIE	Reading Mind in the Eye
SA	Social Age
SD	Standard Deviation
SD	Self Direction
SFBT	Seguin Form Board Test
SHD	Self Help Dressing
SHE	Self Help Eating
SHG	Self Help General
Soc	Socialization
SPM	Standard progressive matrices
SPSS	Statistical Package for the Social Sciences
SQ	Social Quotient
SRS	Social Responsiveness Scale
SS	Social Skills
TD	Typically Developed
TOM	Theory of mind
VSMS	Vineland Social Maturity Scale

<b>Symbols</b>	<b>Full form</b>
$\mu$	Mu
B	Beta
P	Significance
$\chi^2$	Chi- Square
R	Pearson's correlation