## Dr. Rachana Maurya (RCI CRR No.-A12197)

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***Curriculum Vitae***

***Educational and Professional Qualification***

**Dec. 2017-Feb. 2022:** Ph.D. in Psychology from Jamia Millia Islamia University, Delhi, India.

**Supervisor:** Dr. Md. Faizullah Khan, Assistant Professor, Department of Training & Non- Formal Education, Jamia Millia Islamia University, Delhi, India.

Thesis Title: **“Enhancing Cognitive and Social Skills of Children with Autism Spectrum Disorder (ASD).”**

**Master of Philosophy (Rehabilitation Psychology):** 2006-2008, Osmania University Hydarabad, Telangana State, India. The Practicum training was provided for the period of 2 years at National Institute for the Mentally Handicapped (NIMH) Secundarabad Telangana State.

**Master of Art (Applied Psychology Specialization Clinical Psychology):** 2003-2005 from Veer Bahadur Singh Purvanchal University. 1month summer internship training in Noor Manjil Psychiatric Center, Lucknow UP. India.

***Research and Professional Experience***

**All India Institute of Medical Sciences, Delhi**

**Position: Research Associate**

**27.04.2023 to Present**

Presently working on research project entitled "Early Detection and Rehabilitation of Neuro-Cognitive and Psycho-Behavioural Deficits in Children with Cancers: Development of a Screening Scale and a Double-Blind Randomized Control Study” The primary objective is to develop screening tool to detect neuro-cognitive and psycho-behavioural deficits in children with cancers. The secondary objective is to conduct cognitive intervention program on four arms namely experimental group (manual based cognitive training program and 3 computer based cognitive training program) and treatment as usual group as control group.

**Job Responsibility:** establish psychiatric diagnosis, application of various tools involve in research project (Cognitive Assessment System-II, Stroop Test, Pourtuze Test, Children Color Trails Test, coloured progressive matrices test of intelligence, and CBCL), conduct the cognitive skill intervention (AIIMS CTT-manual based, computer based cognitive training program e.g. PSS CogRehab and CogMed), maintaining records of cases, monitoring implementation of intervention arms, data analysis (SPSS) and interpretation, preparation of research paper, preparation of annual report.

**Shree Kailash Disability and Rehabilitation Society, Azamgarh, UP**

**20.09.2022 to 26.04.2023**

**Position: Assistant Professor for Psychology**

Delivered lecture to under graduate student on the paper namely human growth and development, Educational Psychology, involved in project work, involved in practical, conduct short-term training program.

**All India Institute of Medical Sciences, Delhi**

**Position: Research Associate**

**17.11.2020 to 19.010.2022**

Worked on research project entitled “Cognitive and Psychophysiological Effects of AIIMS Cognitive Training Toolkit (AIIMS CTT) and Commuter Based Cognitive Training (PSS CogRehab) on children with ADHD aged 6-11 years: A Randomized Controlled Pilot Study.

**Job Responsibility:** establish psychiatric diagnosis, application of various tools involve in research project (Cognitive Assessment System-II, Stroop Test, Pourtuze Test, Children Color Trails Test, coloured progressive matrices test of intelligence, and CBCL), conduct the cognitive skill intervention (AIIMS CTT-manual based, computer based cognitive training program e.g. PSS CogRehab and CogMed), maintaining records of cases, monitoring implementation of intervention arms, data analysis (SPSS) and interpretation, preparation of research paper, preparation of annual report.

**Rehabilitation Council of India, New Delhi, India**

**Position: Program Officer**

**20.08.2015 to 31.05.2019**

Worked on center sector plan scheme of “In-Service Training and Sensitization of key functionaries of central and state government, local bodies and other service providers”

Job responsibility: securitization of the proposals received for in-service training and sensitization program, processing of proposal as per the provisions of central sector scheme of in-service training for financial assistance, preparation of sanction order and release of grant-in aids, coordination with implementing agencies, conduct meeting with fund sanctioning authority, monitoring of in-service training program, coordinate with ministry, preparation of progress report, documentation.

**Gramodyog Seva Sansthan, Mushafirkhana Amethi, Uttar Pradesh**

**Position: Lecturer**

**05.12.2013 to 15.08.2015**

Job Responsibility: Deliver lecture to undergraduate student, provided clinical services to persons with disabilities, conduct short-term training program.

**Composite Regional Centre for Persons with disabilities, Ahmedabad, Gujarat, India**

**Position: Rehabilitation Psychologist**

**02.07.2012 to 03.12.2013**

**Job Responsibility:** In-Charge of the unit (Training& Services), provide clinical services to persons with disabilities, assist the Director in rehabilitation, training , research activity, extension program and services, deliver lecture, prepare training module for various training program, organizing short-term training program, organizing community awareness and parent training program, conduct developmental and intellectual assessment of children with developmental disabilities, conduct therapeutic intervention.

**Department pf Psychiatry, Government General Hospital, Rangraya Medical college, Kakinada, East Godawari District, Andhra Pradesh, India**

**Position: Clinical Psychologist**

**12.05.2008 to 31.5.2012**

**Job Responsibility:** Conduct psychological assessment for certification of mental retardation, taking case history, conduct mental status examination, conduct therapeutic intervention.

**Uma Educational and Technical Society Kakinada**

**03.06.2009 to 30.06.2012**

**Position: Faculty for Psychology**

Delivered lecture, involved in practical work, project work, conduct CRE program, and conduct parent training program.

**Research Summary**

**ICMR funded research project going on**

Presently, I am working on the project intitled "Early Detection and Rehabilitation of Neuro-Cognitive and Psycho-Behavioural Deficits in Children with Cancers: Development of a Screening Scale and a Double-Blind Randomized Control Study” The primary objective is to develop screening tool to detect neuro-cognitive and psycho-behavioural deficits in children with cancers. The secondary objective is to conduct cognitive intervention program on four arms namely experimental group (manual based cognitive training program and 3 computer based cognitive training program) and treatment as usual group as control group.

**DST funded research project completed**

Worked on children with attention deficit hyperactivity disorder. The objectives of the present research study are to examine the effects of manual cognitive training kit (AIIMS CTT) and computer-based cognitive training kits (PSS CogRehab and CogMed) in improving the neuro-psycho-physiological functioning in children aged 6-11 years diagnosed with ADHD. The secondary objective is to determine the effects of each cognitive intervention on parents rating of children’s behaviour check list (CBCL) and children’s academic performance and to develop Bereitschaftspotential, visual/eye tracking system. Functional Near infrared Spectroscopy (fNIRS) administration protocols for children with ADHD aged 6-11 years.

**Study Outcome**

The interventions can be tried in a multi-centric study to establish the generalizability of the treatment effects across settings and children with ADHD populations. MCTT Manual can be used by clinical/rehabilitation psychologists and psychiatrist at the current stage, however, can be explored to see effectiveness when delivered by teachers and other mental health and health professionals working with this clinical population. Strongly to say that the intervention toolkit can be easily delivered by the trained mental health professionals in a clinical setting for a clinical (children with ADHD) population.

**Ph.D. Work**

The focal aim of my Ph.D. work was to enhance cognitive and social skills of children with autism spectrum disorder, develop an intervention training module for improving cognitive and social skills of children with ASD, to ascertain its effectiveness, and also to assess the child’s profile qualitatively to study the changes in cognitive and social skill. Both qualitative and quantitative results help to understand the consistencies in the results. A total of 20 children aged between 6-11 years who were already clinically diagnosed with autism spectrum disorder have been placed in this study. The results were found significant improvements on the domains of cognitive and social skills. Qualitative analysis found that some children showed determined difficulties like inappropriate language and poor attention concentration. To devise detailed child’s cognitive and social profile, facilitate collecting data regarding the level reached by the children after the intervention.

The overall intervention was recognized as affective as each task from the session activity progress sheet showed a statistically significant impact of the intervention on the cognitive skills namely, executive functioning, central coherence, and understanding cognitive mental state showed an increase after intervention. In the context of social skills, the intervention program namely social story and group based social skill program, seemed to support the children with ASD to develop essential social interaction and social communication skills. It is concluded that the intervention training module is effective to improve cognitive and social skills in children with ASD.

***Paper Publication***

1. Maurya, S., & Maurya, R. (2023). Psychological Distress Between Mothers Having Children with Autism Spectrum Disorder and Intellectual Disability. *Global Journal of Intellectual & Developmental Disabilities.* Vol. 11 Issue (3) page 001-008. DOI: 10.19080/GJIDD.2023.11.555812
2. Maurya, R., & Khan, M.F. (2022). Effects of Cognitive Training Program in children with autism spectrum disorder. *International Journal of Special Education*, 37(1), 75-84. DOI: https://doi.org/10.52291/ijse.2022.37.28
3. Maurya, R., & Khan, M.F. (2021). Cognitive Development in Children with Autism Spectrum Disorder: A Piaget’s Cognitive Developmental Approach. *Mind and Society, Vol.10 (III) page 117-124.*
4. Maurya, R., Khan, M.F. (2020). Executive Functioning in Autism Spectrum Disorder: Single Case Study Method. *SHODH SARITA, Vol. 10 (37) page 78-87*.
5. Maurya, R., & Khan, M.F. (2020). Effectiveness of Group Based Social Skills Program to Improve Social Skills in Autism Spectrum Disorder. *SHODH SANCHAR BULLETIN, Vol.10 (37), page 78-87.*
6. Singh, A., & Maurya, R. (2018) What We Can Get with Rights of Persons with Disabilities Act, 2016?. *The International Journal of Indian Psychology, Vol, 6 (3) Page 163-176.* DOI.10.25215/0603.215.
7. Maurya, R. (2017). Behavior Modification Program in Children with Autism. *Journal of Disabilities and Impairment, Vol, 31 (1), page 17-24.*

***Paper under review for publication***

1. Satapathy S, Kaur J, Sharma R, Maurya, R, Sagar S. Attention-Deficit Hyperactivity Disorder in Children: A Systematic Review of Computerized Cognitive Training Program. Indian Journal of Child & Adolescent Psychology.
2. Satapathy S, Maurya R, Sharma R, Kaur j, Sagar S. Effects of Manualized Cognitive Training (MCTT) and Computerized Training on Neurocognitive Functioning of Children with Attention Deficit Hyperactive Disorder: A Randomized Feasibility Trail. Journal of Pediatric and Child Health.

***Book Publication***

Published book on the titled “**Children with Autism Spectrum Disorders Cognitive Theory and Intervention”**. Published by ***AkiNik Publications.*** ISBN No. 978-93-5570-621-8

DOI: <https://doi.org/10.22271/ed.book.2343>

Act as Co-Author AIIMS Manualized Cognitive Training Toolkit (MCTT) for Children with ADHD (An Intervention Manual). Published by Prasad Psycho, Product code: 16-2233-KT, ISBN No: 978-93-94903-39-5

***Additional Information, Interest and Activity***

1. Presented paper on the topic of Parent Mediated Low-Intensity CBT Intervention for Autism Spectrum Disorders: Research and Practice at 8th Asian CBT Congress and 1st Trama Conclave held at All India Institute of Medical Sciences, New Delhi from 28th Feb to 2nd March 2024.
2. Presented paper on the topic of Parents-mediated Intervention for children with ADHD: Designing & Implementing 8th Asian CBT Congress and 1st Trama Conclave and 1st Trama Conclave held at All India Institute of Medical Sciences, New Delhi from 28th Feb to 2nd March 2024.
3. Presented paper in National Seminar on the topic of Development of Cognitive Toolkit for Children with ASD at National Seminar on New Education Policy held by Uttarakhand Open University from 14th to 15th March, 2020.
4. Presented paper in the National Seminar on the topic of Development of Cognitive Skill Tool Kit for Children with Autism Spectrum Disorder: An Intervention Manual held by Department of Social Work, Andhra University, Vishakhapatnam, Andhra Pradesh from 16th to 17th March 2018.
5. Invited lecture on Behavior Modification Technique for Children with Mental Retardation in CRE Program on Behavior Modification Program for Children with Mental Retardation at Gramodyog Seval Sansthan, Amethi (UP).
6. Presented a paper entitled “Effectiveness of Behavior Modification Program to Reduce Problem Behaviour of Children with ASD and ID” at 1st National Convention on Severe Intellectual & Multiple Disability, 2016 held at Nanital from 17th to 19th June 2017.
7. Presented a poster entitled” Children with Dual Diagnosis Mental Retardation and Mental Disorder: A DSM-IV Prospective at the National Conference on Mental Health and Well-Being: Issues, challenges and Strategies for Future” organized by the Discipline of Psychology, School of Social Science, IGNOU, Delhi on 7th &8th February 2013.
8. Attended 5 days Research Methodology Program from 28th Feb to 4th March 2019 at Rishikesh, organized by Uttarakhand Open University, Haldwani, Uttarkhand.
9. Attended National Workshop on Qualitative Research Methods held on 17th to 19th April, 2017, organized by National Institute for Empowerment of Persons with Multiple Disabilities, Chennai.
10. Attended two-week capacity building programme on research methodology from 21st March to 3rd April 2017 at Jai Naryan Vyas University Rajasthan.
11. Empanelment as an Academic Counsellor at study center Jamia Millia Islamia University appointed by IGNOU University Delhi.
12. Act as Central Level Observer for the examination conducted by National Institute for the Mentally Handicapped, Secundarabad and National Institute for the Empowerment of persons with Multiple Disability for annual annual examination.
13. Act as National Level Evaluator examination conducted by National Institute for Empowerment of Persons with Multiple Disabilities, Chennai.

***Reference***

Dr. Md. Faizullah Khan, Assistant Professor

(Ph.D. Supervisor)

Department of Training & Non-Formal Education,

Jamia Millia Islamia University, Delhi-110025

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Dr. Sujata Satapathy, Professor,

Dept. of Psychiatry,

All India Institute of Medical Sciences, Delhi-110029

Email [Id-dr.sujatasatapathy@gmail.com](mailto:Id-dr.sujatasatapathy@gmail.com)

Dr. A.D. Paswan, Principal,

State Institute for Rehabilitation, Training & Research (SIRTAR),

Rohtak, Haryana

Email Id-principal@sirtarrohtak.com

***Declaration***

I hereby solemnly declare that the information furnished by me is true and correct to the best of my knowledge.

Date: 11.12.2023

Place: Delhi

(Rachana Maurya)