

Highlights of the Curriculum Vita of Dr. Samuel N. Mathew, Ph.D.

Education from 2014 to 1974

Ph.D.	Major: Special Education Cognate: Educational Technology Area of research: Rehabilitation	Purdue University, W. Lafayette, Indiana, USA. Dissertation: <i>An assessment process to estimate the secondary injury potential of assistive technology adopted by farmers with disabilities</i>
M.S.	Major: Special Education Core Group: Augmentative & Alternative Communication (AAC)	Purdue University, W. Lafayette, Indiana, USA
M.Tech.	Major: Control & Instrumentation	Indian Institute of Technology, Mumbai, India. Thesis: <i>Tactile Feedback for the Deaf</i>
B.Sc. Engg.	Major: Electrical Engineering	TKM College of Engineering, University of Kerala, Trivandrum, India

Professional Experience from 2014 back to 1980

- Director, Regional Institute of Physical Medicine & Rehabilitation, Irinjalakuda, Thrissur, Kerala, India
- Executive Director, National Institute of Speech & Hearing, Trivandrum, Kerala, India
- Coordinator for State Initiative on Disabilities (SID) in 2011-2012 that prepared the comprehensive report on Disability Services in the State. The report addressed issues from Prevention, Early Detection, Early intervention, Inclusive Education, Higher Education, Employment and Integration into Mainstream Society.
- Member of Empowered Committee and State Monitoring Committee for SID.
- Research Associate and VR Specialist, National AgrAbility Project, Breaking New Ground Resource Center, Purdue University, West Lafayette, Indiana, USA
- Vocational Rehabilitation Counselor, VR Services, Family & Social Services, State of Indiana, USA
- Grad. Teach. and Res. Asst., College of Education, Purdue University, Indiana, USA
- Chief Operations Officer, SD Technologies, Elkhart, Indiana, USA
- Chief Operations Officer, Square Deal Engineered Tooling, Elkhart, Indiana, USA
- IT Manager, Square Deal Engineered Tooling, Elkhart, IN, USA
- Director, Winsoft Advanced School for Information Technology, Trivandrum, India

- Asst. Professor & HOD of Computer Science & Instrumentation, MES College of Engineering, Malapuram, Kerala, India
- Engineer, NCR Corporation, Muscat, Oman,
- Computer Engineer Mohsin Haider Darwish, Muscat, Oman
- Senior Engineer, Uptron Controls, Bangalore, India
- Project Engineer, Instrumentation Ltd., Kota, India

Selected list of post-graduate level courses on disability related topics

- Advanced Assistive Technology
- Augmentative and Alternative Communication
- Collaboration and Transition Practices in Special Education
- Introduction to Special Education
- Medical & Physical Management of Multiple Disabilities
- Multi-cultural Education
- Severe Characteristics of Disabilities
- Methods of Teaching for Students with Mild Characteristics

Partial List of Publications and Conference Presentations

- Joy,J.M.,Kunnath,S.K.,Mathew,S.N.,Sreekumar,S.,Ashraf,T.P & Nair.S.L (2014). *Habilitation of Children with Hearing Loss – Evidences from a multicentric longitudinal outcome study in India*. Paper presented at the Annual Convention of American Speech and Hearing Association Annual Convention, Orlando, FL.
- Raji, N.R.,Neena, M., & Mathew, S.N.(2013). *Computer Science education for deaf undergraduate students: Challenges & Solutions*. Paper presented at the 25th Kerala Science Congress at Trivandrum, Kerala, India.
- Joy,J.M.,Kunnath,.S.K.,Mathew,S.N.,Sreekumar,S.(2013). *Measurement of Outcome effectiveness for Cochlear Implantation in children aged 1-3 Years in Kerala, India - An Interim report of a longitudinal outcome Study*. Paper presented at the Asia Pacific Symposium of Cochlear Implants, Hyderabad, India

- Mathew, S. N., Field, W. E., & French, B. F. (2011). Content validation using expert panel: Assessment process for Assistive Technology adopted by farmers with disabilities. *Journal of Agricultural Safety and Health*, (17)3.
- Mathew, S. N., Field, W. E., & French, B. F. (2011). Secondary Injury Potential of Assistive Technologies Used by Farmers With Disabilities: Findings From Case Studies.' *Journal of Agromedicine*, 16(3).
- Mathew, S. N., Field, W. E. & Etheridge, S.E. (2011). Impact of Vocational Rehabilitation Services on AgrAbility Projects and farmers with disabilities. *Journal of Vocational Rehabilitation*, 35(2).
- Srinivasan, S., Mathew, S.N., & Lloyd, L. L. (2010). Insights into communication intervention and AAC in South India: A mixed-method study. *Communication Disorders Quarterly: Special issue on International Perspectives in Augmentative and Alternative Communication*. Advance online publication. doi: 10.1177/ 1525740109354775
- Mathew, S.N., Field, W.E. & French, B.F., (2009). An assessment process to estimate the secondary injury potential of assistive technology adopted by farmers with disabilities. Conference paper presented at the Annual Conference of American Society for Agricultural and Biological Engineers, Reno, Nevada.
- Mathew, S.N., & Field, W.E. (2009). Secondary injury assessment tool for farmers with disabilities. Session Presentation at the National Training workshop, of National AgrAbility Project, Grand Rapids, Michigan.
- Etheridge, S.E. & Mathew, S.N., (2009). Understanding the vocational rehabilitation process. Session Presentation at the National Training workshop of National AgrAbility Project, Grand Rapids, Michigan.
- Srinivasan, S., Mathew, S.N., & Lloyd, L. L. (2008). Communication intervention and AAC in South India: A mixed-method study. Paper presented at the Annual Graduate Student Educational Research Symposium (AGSERS), Purdue University, West Lafayette, Indiana.
- Mathew, S. N., Srinivasan, S., & Lloyd, L. L. (2008). Multicultural issues in AAC: A systematic review. Paper presented at the 2008 International Society for Augmentative and Alternative Communication (ISAAC) Conference at Montreal, QC, Canada.
- Srinivasan, S., Mathew, S.N., & Lloyd, L. L. (2008). Insights into communication intervention and AAC in South India: A mixed-method study. Paper presented at the

International Society for Augmentative and Alternative Communication (ISAAC)
Conference at Montreal, QC, Canada.

Research & Practice Involvement:

- MathSpeak Study, gh LLC, 2005-2006. *Study on Nemeth code implementation in MathSpeak software and its effectiveness for visually impaired students for learning mathematics*
- AAC Practicum, West Lafayette School Corporation, 2006, *AAC intervention for severe and profound pre-school children.*
- Current status of augmentative and alternative communication in South India: A mixed method study, 2008. Poster presented at Bi-annual International Conference on Augmentative and Alternative Communication, August 2008, Montreal, Canada
- Systematic review of research studies in multicultural augmentative and alternative communication, 2008. Poster presented at Bi-annual International Conference on Augmentative and Alternative Communication, August 2008, Montreal, Canada
- On-site case studies of 19 farmers with disabilities using interview instruments and examination of AT. The case studies identified the potential for secondary injuries as well as the safety strategy of farmers with disabilities
- Internet based survey of rehabilitation professionals to determine the significance of AT features, user characteristics and environmental factors in contributing to hazardous situations that can cause secondary injuries for individuals with disabilities.
- Focus groups of expert panel to validate the Assessment tool to estimate the secondary injury potential of assistive technology adopted by farmers with disabilities
- An assessment process to estimate the secondary injury potential of assistive technology adopted by farmers with disabilities, Conference paper at Annual Conference of American Society for Agricultural and Biological Engineers, June, 2009
- Study of State AgrAbility Project partnership with State VR agencies for 23 states in the USA. A whitepaper was prepared with emphasis on funding, services provided, conflict resolution

Grant Writing Experience

- OSERS “Preparation of Leadership Personnel - Collaborative Augmentative and Alternative Communication Doctoral Program” Project Director. Dr. Lyle L. Lloyd, Purdue University, West Lafayette, Indiana
- Field initiated Program of NIDRR. “Augmentative and Alternative Communication (AAC) for Persons with Severe and Profound Disabilities: Challenges faced by the Asian-Indian American Population due to Cultural Differences”. Project Co-directors: Dr. Lyle L. Lloyd and Samuel N Mathew, Purdue University, West Lafayette, Indiana
- Field initiated program of NIDRR “Parental perspectives on special education services for students with severe and profound disabilities: Cultural barriers for Asian-Indian immigrants. Project Co-directors: Dr. Lyle L. Lloyd and Samuel N Mathew, Purdue University, West Lafayette, Indiana
- Special Hope Foundation, California “Rehabilitation of the Deaf in India through Horticulture Training: A Replicable Model Project to Remove the Stigma of Disability and Dependence. Project Co-Directors: Dr. William E. Field and Dr. Samuel N. Mathew, Breaking New Ground Resource Center. Purdue University, W. Lafayette, Indiana.

Conference Participation

- Indiana Resource Center for Families with Special Needs (**IN*SOURCE**) annual conference, West Lafayette, Indiana - November, 2005
- Assistive Technology Industry Association (**ATIA**) annual conference, Orlando, Florida - January, 2006
- International Conference on Assistive Technology, at California State University, Northridge (CSUN), Los Angeles, CA - 2006
- Traumatic Brain Injury Association of Indiana State Conference, Indianapolis - 2007
- Indiana Association for Persons in Supported Employment (**INAPSE**) conference on Supported Employment, Indianapolis, Indiana - 2007
- Annual Assistive Technology Conference of the State of Indiana, Indianapolis - 2007

- Indiana Association of Rehabilitation Facilities (**INARF**) annual conference, Indianapolis - 2008
- National Training Workshop, National AgrAbility Project, Wichita, Kansas - 2008
- Annual International Conference of American Society of Agricultural and Biological Engineers, Reno, Nevada - 2009
- National Training Workshop, National AgrAbility Project, Grand Rapids, Michigan – 2009
- National Training Workshop, National AgrAbility Project, Charleston, West Virginia – 2010
- M-Enable Conference, Arlington, Virginia, USA – 2013
- Assistive Technology Industry Association (**ATIA**) annual conference, Orlando, Florida - January, 2014

Fields of Research Interest

- Augmentative and Alternative Communication
- Assistive Technology
- Multicultural issues in special education
- Assessment of children and adults with disabilities
- Early intervention techniques
- Autism Spectrum disorders and assessment
- Educational technology for individuals with disabilities
- Rehabilitation of individuals with disabilities
- Sign Languages for the deaf population