

Curriculum Vitae

KEDAR MAL

B.Tech-M.Tech (Int.)
Cognitive and Neuroscience
Centre for Converging Technologies
University of Rajasthan
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REREARCH INTERST

Sleep and higher cognitive functions, Psychiatric disorders and Sleep, Brain Imaging techniques (EEG, NIRS), tDCS

ACADEMIC RECORD

Master of Technology, dissertation at Department of Neurophysiology, National Institute of Mental Health and Neuroscience (NIMHANS), Bangalore, India. **March 2014**

Thesis title: Effect of Age and Gender on postganglionic Sudomotor function using Q-Sweat device
Thesis advisor: Dr. Sathyaprabha T.N.

Dual degree Bachelor and Master of Technology, Cognitive and Neuroscience
Centre for Converging Technologies, University of Rajasthan, Jaipur.

December 2014

PROFESSIONAL EXPERIENCE

Junior Research Fellow

June 2015 to till date

Department of Humanities and Social Sciences
Indian Institute of Technology (IIT)-Guwahati-Assam (India)
Supervisor: Dr. Naveen Kashyap
Project: REM sleep Dependent Consolidation of Emotional Prospective Memory

Teaching assistant

November 2014 to April 2015

Cognitive and Neuroscience division
Centre for Converging Technologies-University of Rajasthan-India
Supervisor: Dr. Sushila Pareek

- Theory: Principles of Electroneurophysiology, physiology of nervous system, Cytology of Neuron
- Practical: Biopac system lab, RMS-EEG lab, RMS-EMG lab

Research trainee

October 2013-March 2014

Department of Neurophysiology, NIMHANS-Bangalore-India
Supervisor: Dr. Sathyaprabha T.N.
Project: Effect of Age and Gender on postganglionic Sudomotor function using Q-Sweat device

PUBLICATION

- Differential changes in the function of postganglionic sympathetic sudomotor axons with age and gender (Journal Article, Submitted).

LABORATORY EXPERIENCES

- EEG/ERP, EMG
- transcranial Direct Current Stimulator (tDCS)
- Autonomic Function Testing tools (HRV, PFT, QSART)

- Biopac student lab PRO
- Handling of cognitive model organism Drosophila.
- Chromatography: Thin Layer Chromatography and Paper Chromatography.
- PCR, Ultracentrifuge and Laminar flow.

Research software skill

- E-Prime 2.0 (Professional)
- MATLAB
- Polysmith

COURSES AND SCHOOLS

- The 7th Bangalore Benny Shilo Course in **Developmental Biology** (January 12-23, 2015, National Centre for Biological Sciences, Tata Institute of Fundamental Research, Bangalore-India)
- Winter School and Conference on **”Computational Aspects of Neural Engineering”** (December 12-21, 2012, Indian Institute Of Science, Bangalore)

CONFERENCE AND WORKSHOPS

- Brain Product, Reading University & IIT-Bombay’s workshop on **“A Cutting-Edge Workshop on Methods and Analysis of EEG and fMRI”** (October 10-12, 2014, Indian Institute of Technology, Mumbai-India)
- International conference on **”Psychology of music and mental health”** (April 27-28, 2012, University of Bangalore, Bangalore)
- One day workshop on **“Advance Medical Science”**
 - ✓ Module 1: microfabrication and their application in brain neurological disorder and cancer cell analysis.
 - ✓ Module 2: micro gel electrophoresis and their application in tuberculosis diagnosis.
- International conference on **“Innovations in the latest Healthcare Issues”** (September 9-21, 2011, Biyani’s group of colleges, Jaipur)

AWARDS AND HONOURS

- Best Scout award - 2004-2005
- Tratiya Sopan Award-2002
- Scouting rally-2001
- Greenland soldiers award (Plantation)-2003

EXTRA CURRICULAR ACTIVITIES

- Songs and poem writing in Hindi
- Elected as Assistant CR (Class representative) for two consecutive years during M.Tech.

COMPUTER SKILLS

- Experience in C, C++
- MS Office, MS excel, Power point