

D V P S MURTY

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EDUCATION

Centre for Neuroscience, Indian Institute of Science
PhD Neuroscience

Bangalore, India
2013-2020

Govt. Stanley Medical College & Hospital
MBBS (Bachelor of Medicine and Bachelor of Surgery)

Chennai, India
2006-2012

RESEARCH EXPERIENCE (as a PhD student; Advisor: Dr. Supratim Ray)

Thesis: Visual narrowband gamma oscillations: effect of stimulus, healthy aging and Alzheimer's disease.

Accomplishments: Established human EEG recording setup in lab; conducted EEG experiments in close coordination with other collaborators in a multi-investigator project.

Research skills – human EEG: Recording of EEG data: BrainAmp DC (Brain Products) and EGI; analysis of eye-data: infrared eye-trackers (Eyelink 1000 and ISCAN ETL-200).

Research skills – macaque electrophysiology: Chair training and head-post implantation surgery; administered anaesthesia in microelectrode (Utah) array implantation surgeries in area V1; recording and analysis of local field potentials (Blackrock Cerebus).

Programming languages: MATLAB, Objective-C and Python.

PUBLICATIONS (Research articles)

- **Murty, D.V.P.S.***, Shirhatti, V.*, Ravishankar, P.*, Ray, S., 2018. Large Visual Stimuli Induce Two Distinct Gamma Oscillations in Primate Visual Cortex. J. Neurosci. 38, 2730–2744. <https://doi.org/10.1523/JNEUROSCI.2270-17.2017> (*: equal contribution).
- **Murty, D.V.P.S.**, Manikandan, K., Kumar, W.S., Ramesh, R.G., Purokayastha, S., Javali, M., Rao, N.P., Ray, S., 2019. Gamma oscillations weaken with age in healthy elderly in human EEG. bioRxiv 696781. <https://doi.org/10.1101/696781> (also, in review)

IMPORTANT CONFERENCES ATTENDED

- Neuroscience-2018, San Diego, CA, USA (annual meeting of the Society for Neuroscience); Nov 3-7, 2018.
Poster abstract: **Dinavahi V. P. S. Murty**, S. Ray. Age dependence of visual gamma oscillations elicited by Cartesian gratings in human EEG. Program No. 580.03. 2018 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2018. Online.
- T.S. Srinivasan-NIMHANS Knowledge Conclave 2018: Neuropsychiatry-2018 (a joint congress of NIMHANS, Bangalore and International Neuropsychiatry Association); Feb 15-17, 2018.
(Was awarded 6 CME credits by Karnataka Medical Council).
- Neuroscience-2016, San Diego, CA, USA (annual meeting of the Society for Neuroscience); Nov 12-16, 2016.
Poster abstract: **M. V. P. S. Dinavahi**, V. Shirhatti, P. Ravishankar, S. Ray. Stimulus dependence of gamma oscillations (20 - 70 Hz) in human EEG. Program No. 54.15. 2016 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016. Online.

SCHOLARSHIPS/FELLOWSHIPS RECEIVED

- Travel grant from Department of Biotechnology (Govt. of India) for attending Neuroscience-2016. 2016
- Junior Research Fellowship (awarded by Council for Scientific and Industrial Research, Govt. of India). 2013
- Stipendiary internship by Govt. of Tamil Nadu at the Govt. Stanley Hospital, Chennai. April 2011 to March 2012
- IFFCO scholarship (for pursuing medical studies). August 2006 to April 2011

TEACHING EXPERIENCE (Teaching assistant)

- EEG practical class including recording and time-frequency analysis for undergraduate students (class of ~40). January – April session of 2016
- Neuroanatomy practical demonstration to undergraduate students (class of ~120, divided over 4 batches). August – December sessions of 2015 and 2016.

LEADERSHIP EXPERIENCE

Society for Industrial and Applied Mathematics – Indian
Institute of Science (SIAM-IISc) student chapter

2014-2015

- **Founder member.**
- Coordinated in organising lectures in applied aspects of mathematics.

INDUSTRY EXPERIENCE

Pushpanjali Crosslay Hospital
Emergency Medical Officer

Ghaziabad, Uttar Pradesh,
India,
Oct. 2012 – Jan. 2013

PERSONAL PROFILE

Name	: D. V. P. S. Murty
Full name (as in passport)	: Dinavahi Venkata Phani Sundara Murty
Father's name	: D. S. S. R. Murty
Date of birth	: December-24-1988
Nationality	: Indian
Languages spoken	: English, Hindi, Telugu, Tamil

REFERENCES

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D. V. P. S. Murty
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