

**Nationality:** Indian | **Gender:** Female |

Oscurato ai sensi delle linee guida  
del Garante per la Privacy

Department of Physiology and Pharmacology, Piazzale Aldo Moro,5, 00185, Rome, Italy

## ● WORK EXPERIENCE

01/11/2018 – CURRENT – Rome, Italy

**DOCTORAL CANDIDATE** – SAPIENZA UNIVERSITY

Behavioral Neuroscience Ph.D. Program

### **Neurophysiology**

- Understanding the neuronal basis of behavior using neurophysiological techniques, involving the analysis of single-unit activity obtained from the non-human primate brain.
- Studying the role and involvement of different brain areas in complex and highly demanding cognitive tasks.
- Analysis and recording of other physiological signals in relation to the behavior.
- Development of behavioral tasks.

Rome, Italy

01/10/2016 – 10/09/2018 – New Delhi, India

**RESEARCH FELLOW** – DEPARTMENT OF NMR AND MRI FACILITY, ALL INDIA INSTITUTE OF MEDICAL SCIENCES (AIIMS)

### **Neuroimaging studies:**

- fMRI and MRI data analysis and acquisition for cognitive studies of different neurological disorders and controls.
- Contributed to the completion of a project titled "Functional, Morphological, Biochemical and Behavioural evaluation post EMF radiation i.e the mobile radiation"
- Development of fMRI task paradigms.

New Delhi, India

01/05/2015 – 10/02/2016 – Bangalore, India

**RESEARCH TRAINEE** – DEPARTMENT OF NEUROIMAGING AND INTERVENTIONAL RADIOLOGY, NIMANS

- Brain Functional Connectivity analysis using fMRI for resting state and cognitive task performance state.
- Worked with various cognitive aspects such as memory, motor control, language, decision making, and emotion for studying the connectivity changes with respect to the relation of DMN and task-positive networks.

Bangalore, India

## ● EDUCATION AND TRAINING

27/09/2013 – 15/03/2016 – Jaipur, India

**MASTER OF TECHNOLOGY IN COGNITIVE NEUROSCIENCE** – Center for Converging Technologies, University of Rajasthan

**● LANGUAGE SKILLS**

---

Mother tongue(s): **HINDI** | **ENGLISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ITALIAN</b>	A1	A1	A1	A1	A1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user***● JOB-RELATED SKILLS**

---

**Scientific skills**

---

-Proficient in use of MATLAB for the analysis of single unit neuronal data and writing scripts for the analysis of neurophysiological datasets.

-Behavioural task designing for non-human primate and human experiments using different platforms like MATLAB and JAVA.

-Familiarised with MATLAB based tools for Neuroimaging data and image processing and bridging the results for group analysis using cross programming.

-Acquainted with the use of various tools like SPM, CONN (connectivity toolbox), FSL (fmrib software library-linux based tool for neuroimaging data analysis).

**● PUBLICATIONS**

---

**Different Contribution of the Monkey Prefrontal and Premotor Dorsal Cortex in Decision Making during a Transitive Inference task**

---

<https://doi.org/10.1016/j.neuroscience.2022.01.013> – 2022Accepted in *Neuroscience***● HONOURS AND AWARDS**

---

09/09/2021

**SIF Prize Best Poster 2021 – Italian Society of Physiology**

---

1<sup>st</sup> Place in Neurobiology and Neurophysiology

## ● CONFERENCE PUBLICATIONS

---

11/2021

### **Neuronal encoding of ranked items in primate prefrontal cortex during different phases of a transitive inference task**

---

Surabhi Ramawat, Valentina Mione, Fabio Di Bello, Pierpaolo Pani, Stefano Ferraina, Emiliano Brunamonti, Neuroscience 2021, SFN 50th Annual Meeting 2021

09/2021

### **Differences in task difficulty encoding during logical decision-making in prefrontal and premotor cortical activity from non-human primates**

---

Surabhi Ramawat, I. B Marc, M. Andujar, F. Ceccarelli, F. Londei, P. Pani, A. Genovesio, S. Ferraina, E. Brunamonti, 71st Congress of The Italian Society of Physiology (SIF 2021).

09/2019

### **Neuronal Correlates of Decision Making in the Prefrontal and Premotor Cortex of Non-human primates during a Transitive Inference Task**

---

Surabhi Ramawat, Fabio Di Bello, Valentina Mione, Stefano Ferraina, Emiliano Brunamonti, XVIII Congresso Nazionale SINS, Perugia

06/2018

### **A comparison of audiovisual and auditory cue-based gaming using fMRI**

---

Surabhi Ramawat, Senthil Kumaran, Shefali Chaudhary, Sunita Gudwani, Sadhana Kumari, Rohit Saxena , and Naranamangalam R Jagannathan, ISMRM-ESMRMB, Paris  
<https://cds.ismrm.org/protected/18MProceedings/PDFfiles/4541.html>

05/2016

### **Why a clinical sign does not always correlate with lesion location**

---

Rajanikant Panda, Rose Dawn Bharath, Shriram Varadhran, Sankalp Tikoo, Sarbesh Tiwari, Surabhi Ramawat, Shiva Karthik, Indira Devi Bhagavatula and Arun Gupta, ISMRM, Singapore  
<https://cds.ismrm.org/protected/16MProceedings/PDFfiles/3791.html>

06/2021

### **Neuronal Correlates of Choice Difficulty during a Logical Decision-making task in Primate Prefrontal and Premotor Cortex**

---

Surabhi Ramawat, Fabio Di Bello, Valentina Mione, Giampiero Bardella, Pierpaolo Pani<sup>1</sup>, Stefano Ferraina and Emiliano Brunamonti, ENCODS, FENS PhD meeting, 2021

09/2021

### **Failure of the race model accounting for inhibition in a stop signal selective task of upper and lower limb**

---

Isabel Beatrice Marc, Valerio Romano, Surabhi Ramawat, Marta Andujar, Lorenzo Fiori, Fabrizio Londei, Francesco Ceccarelli, Stefano Ferraina, Emiliano Brunamonti, 71st Congress of The Italian Society of Physiology (SIF 2021).

2021

## **Stable and Dynamic Response Population Coding in Prefrontal cortex**

---

Francesco Ceccarelli, Fabrizio Londei, Surabhi Ramawat, Isabel Beatrice Marc, Aldo Genovesio, 71st Congress of The Italian Society of Physiology (SIF 2021).

## ● **WORKSHOPS**

---

10/03/2021

### **Multisite recordings and distributed representations in the macaque brain**

---

03/2017

### **Recent advances in MRI and MRS**

---

Department of NMR, All India Institute of Medical Sciences, New Delhi under the egis of "ISMRM Indian Chapter".

05/2017

### **"MedImg", Medical Imaging Workshop**

---

Department of Biomedical Engineering, Indian Institute of Technology, New Delhi, India

**Date: 28/03/2022**

Firma oscurata ai sensi delle  
linee guida del  
Garante per la Privacy

/