Sahil Moza, PhD



CONTACT EBRAINS, Human Brain Project Website: https://sahilmoza.com

INFORMATION SciLife Lab, KTH, Stockholm

Solna, Sweden

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Research Computational and Systems Neuroscience, Neural syntax, Machine Learning approaches

Interests to Neuroscience

EDUCATION Ph.D Neuroscience/Systems Biology July 2020

National Centre for Biological Sciences Bangalore, India

Advisor: Prof. Upinder S. Bhalla

M.E. Computational and Systems Biology, GPA 7.4/9.0 Aug 2012

Jawaharlal Nehru University New-Delhi, India

B.E. Biotechnology, GPA 3.3/4.0 Jul 2010

Panjab University Chandigarh, India

PhD Thesis Robust memory and precise balance: Computation with biological network motifs

RESEARCH Bhatia, A.*, **Moza**, S.*, Bhalla, U.S., "Precise excitation-inhibition balance controls gain and timing in hippocampus.", *eLife*, *Apr 2019* (*Equal contribution)

Faculty Opinions Recommendation. In Faculty Opinions, 04 May 2020

Moza S., Bhalla, U.S., "Different dimensions of robustness- noise, topology and rates

- are nearly independent in chemical switches.", bioRxiv Aug 2020

HarshaRani, G.V., **Moza, S.**, Ramakrishnan, N., Bhalla, U.S., "SWITCHES: Searchable Web Interface for Topologies of CHEmical Switches.", *Bioinformatics Jan 2021*.

http://SWITCHES.ncbs.res.in

BOOK CHAPTERS Bhatia, A., Moza, S., Bhalla, U.S., "Patterned Optogenetic Stimulation using a DMD-

projector", Channelrhodopsin, Chapter 11, Springer Protocols, 2020

Work Scientist, EBRAINS, Human Brain Project Oct 2020 -

EXPERIENCE Programmer, National Centre for Biological Sciences Oct 2018 - May 2020

Teaching Assistant and Organization
EXPERIENCE

Computational approaches to memory and plasticity (CAMP), Summer 2014-18

National Centre for Biological Sciences, Bangalore

Boston Bangalore Biosciences Beginnings Neuroscience school Winter 2016

Harvard University, Boston

National Centre for Biological Sciences, Bangalore

Workshops and Conferences	Transylvanian Experimental Neuroscience Summer School, Romania Quantitative approaches to Behaviour & Neural Systems, Lisbon, Portuga Neuroscience 2017, Society of Neuroscience, Washington DC, USA Molecular Mechanisms at the Synapse, Janelia Research Campus HHMI, Ashburn, Virginia, USA ICTP-ICTS Winter School on Quantitative Systems Biology	Jun 2019 1 Oct 2018 Nov 2017 May 2016 Dec 2013
Invited Talks	NeuroMatch Conference, Online Webinar No Garlands Neuroscience, IISER Pune, India Molecules and Memory, NCBS, Bengaluru, India Spikes lecture series, Centre for Neuroscience, IISc Bengaluru, India No Garlands Neuroscience, IISER Pune, India BSSE Symposium, IISc Bengaluru, India	March 2020 Jan 2020 Mar 2019 Jan 2018 Oct 2017 Jan 2017
Awards & Fellowships	Fellowships	
	Council of Scientific and Industrial Research (CSIR) Senior Research Fellowship (SRF), Biology Junior Research Fellowship (JRF), Biology (All India Rank 36)	- July 2017 Dec 2011
	·	Feb 2011 0 - Jul 2012 r - Jun 2009 2008, 2009
	Travel Awards	
	IBRO-PERC, The Brain Prize and FENS stipend Wellcome Trust Travel Award Infosys Travel Award, Infosys Foundation Department of Biotechnology Travel Award, Government of India Janelia Research Campus, HHMI, Ashburn, Virginia, USA Magnetic Resonance Society, EUROMAR, Gothenburg, Sweden	May 2019 Sep 2018 Dec 2017 Nov 2017 May 2016 Jun 2009
RESEARCH INTERNSHIP	University of Groningen, The Netherlands May 200	9 - Jul 2009
	Title 2D NMR Hydrogen/Deuterium exchange study of Haloalkane Dehalogenase (DhlA) from Xanthobacter autotrophicus	
	Supervisor Prof. Frans Mulder	
Software Skills	Programming Python, Perl, R, UNIX shell scripting, Octave, GNU make, C, LATEX	
	Relevant scientific libraries/software Machine Learning: scikit-learn, TensorFlow Simulators: MOOSE, CoPaSi, Brian, MCell Cluster and supercomputing: Sun Grid Engine	
Standardized Tests	GRE General Test- 99% Verbal, 93% Quantitative TOEFL iBT- 115/120 Basic French (DELF - A1, 65%)	Feb 2010 Dec 2009 Dec 2010
Extra- curricular	Curator and organizer, TEDxNCR Theater and Improvizational theater	Dec 19, 2010 10+ years

References

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Sandeep Krishna

Assistant Professor

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