## Sahil Moza, PhD



Postdoctoral Fellow at Zhang Lab Website: https://sahilmoza.com Contact Harvard University Information sahil.moza@gmail.com, sahilmoza@fas.harvard.edu Research Neural basis of behavioral timing, circuit computations, interaction between chemical Interests and electrical computation in neurons, tight theory-experiment loops. Postdoctoral Research Dept of Organismic & Evolutionary Biology EDUCATION & Sep 2022-Training Harvard University, Cambridge, USA Mentor: Yun Zhang Postdoctoral Research Boston Children's Hospital Jul 2021-Sep 2022 Harvard Medical School, Boston, USA Mentor: Michael Crickmore Ph.D Neuroscience/Systems Biology July 2020 National Centre for Biological Sciences Bangalore, India Mentor: 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 **PUBLICATIONS** gain and timing in hippocampus.", eLife, Apr 2019 (\*Equal contribution) Faculty Opinions (Exceptional) 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, KTH, Stockholm Oct 2020 - July 2021 EXPERIENCE

TEACHING EXPERIENCE    Computational approaches to memory and plasticity (CAMP)   National Centre for Biological Sciences, Bangalore			
National Centre for Biological Sciences, Bangalore		Teaching Assistant and Organization	
National Centre for Biological Sciences, Bangalore	EXPERIENCE	Computational approaches to memory and plasticity (CAMP)  Su	ımmer 2014-18
Boston Bangalore Biosciences Beginnings Neuroscience school   Harvard University, Boston   National Centre for Biological Sciences, Bangalore			
WORKSHOPS AND CONFERENCES  WORKSHOPS AND CONFERENCES  WORKSHOPS AND CONFERENCES  Quantitative approaches to Behaviour & Neural Systems, Lisbon, Portugal 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  Dec 2013  TALKS  NeuroMatch Conference, Online Webinar No Garlands Neuroscience, IISER Pune, India Spikes lecture series, Centre for Neuroscience, IISE Bengaluru, India Spikes lecture series, Centre for Neuroscience, IISE Bengaluru, India No Garlands Neuroscience, IISER Pune, India Spikes lecture series, Centre for Neuroscience, IISE Bengaluru, India Jan 2019 Spikes lecture series, Centre for Neuroscience, IISE Bengaluru, India Spikes lecture series, Centre for Neuroscience, IISE Bengaluru, India Spikes lecture series, Centre for Neuroscience, IISE Bengaluru, India Jan 2017  AWARDS & Fellowships  Council of Scientific and Industrial Research (CSIR) Senior Research Fellowship (SRF), Biology Jul 2014 - July 2017 Junior Research Fellowship (JRF), Biology (All India Rank 36) Dec 2011  DBT Bioinformatics National Certification (All India Rank 33) Jawaharlal Nehru University- Masters Fellowship Apr - Jun 2009 Panjab University- Extra-mural grants  Tavel Awards  BRO-PERC, The Brain Prize and FENS stipend Wellcome Trust Travel Award Neurola Award, Infosys Foundation Department of Biotechnology Travel Award, Government of India Jancilia Research Campus, HHMI, Ashburn, Virginia, USA Magnetic Resonance Society, EUROMAR, Gothenburg, Sweden  WET Fly genetics and behavior, optogenetics, 2P and FLIM live imaging  SKILLS  DRY Electronics and Programming			TT7
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## ${\bf Relevant\ scientific\ libraries/software}$

Machine Learning: scikit-learn, TensorFlow Simulators: MOOSE, CoPaSi, Brian, MCell Cluster and supercomputing: Sun Grid Engine