Curriculum Vitae - **Narendra Mukherjee**

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EDUCATION:

Degree/Certificate	Institution	Year	CGPA/Percentage
Doctor of Philosophy (PhD: Neuroscience)	Brandeis University	2012 – ongoing	3.9
5 year integrated B.S – M.S (Major: Biology)	Indian Institute of Science Education and Research (IISER), Kolkata	2007-2012	9.07 (on an absolute grading scale of 10) (Department Rank:01)

RESEARCH:

Publications:

1. 'Python meets systems neuroscience: affordable, scalable and open-source electrophysiology in awake, behaving rodents' - **Narendra Mukherjee,** Joseph Wachutka, Donald B Katz. Proceedings of the 15th Python in Science Conference (Scipy 2017) (Forthcoming).

2. 'The Behavioral Relevance of Cortical Neural Ensemble Responses Emerges Suddenly' – Brian F Sadacca, **Narendra Mukherjee**, Tony Vladusich, Jennifer X Li, Donald B Katz and Paul Miller. Journal of Neuroscience (2016). **36(3):** 655 – 69.

2. 'Strong (Type 0) phase resetting of activity/rest rhythm of fruit flies, *Drosophila melanogaster,* at low temperature' – Vishwanath Varma, **Narendra Mukherjee**, Nisha N Kannan and Vijay Kumar Sharma. *Journal of Biological Rhythms* (2013). **28(6):** 380 – 389.

3. 'Robustness of circadian timing systems evolves in fruit flies *Drosophila melanogaster* as a correlated response to selection for adult emergence in a narrow window of time' – Nisha N Kannan, **Narendra Mukherjee** and Vijay Kumar Sharma *Chronobiology International* (2012). **29(10):** 1312 – 28.

4. 'A model based on oscillatory threshold and build up of a developmental substance can explain gating of adult emergence in fruit flies *D. melanogaster'* – **Narendra**

Mukherjee, Nisha N Kannan, Pankaj Yadav and Vijay Kumar Sharma. *Journal of Experimental Biology* (2012). **215(17):** 2960 – 68.

Poster presentations in conferences/workshops:

1. 'Optogenetically perturbing behaviorally relevant stochastic cortical population dynamics' - **Narendra Mukherjee,** Joseph Wachutka and Donald B Katz (Statistical Analysis of Neuronal Data (SAND8) at Pittsburgh, PA from 31st May - 2nd June, 2017).

2. 'Perturbing behaviorally relevant cortical population activity states' – **Narendra Mukherjee,** Joseph Wachutka and Donald B Katz (Annual Meeting of the Society for Neuroscience (SfN) at San Diego, CA from 12th November – 16th November, 2016).

3. 'Ensemble dynamics in the rat gustatory cortex can precisely predict taste ingestion-rejection decisions' – **Narendra Mukherjee,** Jennifer X Li and Donald B Katz (Annual Meeting of the Society for Neuroscience (SfN) at Washington DC from 15th November – 19th November, 2014).

4. 'Ensemble dynamics in the rat gustatory cortex can precisely predict taste ingestion-rejection decisions' – **Narendra Mukherjee,** Jennifer X Li and Donald B Katz (36th Annual Meeting of the Association for Chemoreception Sciences (AChemS) at Bonita Springs, Florida from 9th April – 12th April, 2014).

5. 'A model for gating of adult emergence in *Drosophila melanogaster*' – **Narendra Mukherjee,** Nisha N Kannan, Pankaj Yadav, and Vijay Kumar Sharma (International Conference on Mathematical Biology at the Indian Institute of Science (IISc), Bangalore from 4th July – 7th July, 2011).

6. 'Effect of selection for narrow gate of adult emergence in fruit flies *Drosophila melanogaster*' – Nisha N Kannan, **Narendra Mukherjee** and Vijay Kumar Sharma (In-house symposium at Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore on 15th November, 2010).

7. 'A model for gating of adult emergence in *Drosophila melanogaster*' – **Narendra Mukherjee,** Nisha N Kannan, Pankaj Yadav, and Vijay Kumar Sharma (19th European Chronobiology School (EUCLOCK) at JNCASR, Bangalore from 2nd October – 9th October, 2010). Was declared the best poster of the 2nd day of the school.

8. 'Effect of selection for narrow gate of adult emergence in fruit flies *Drosophila melanogaster*' – Nisha N Kannan, **Narendra Mukherjee** and Vijay Kumar Sharma (19th European Chronobiology School (EUCLOCK) at JNCASR, Bangalore from 2nd October – 9th October, 2010).

Membership in professional societies:

Society for Neuroscience (2014-present)
Association for Chemoreception Sciences (2014-present)

Academic grants awarded:
$70,000 per year towards tuition and fellowship for 3 years (2014-2017) from the Howard Hughes Medical Institute (HHMI) as part of the International Graduate Students' Fellowship

$16,780 (estimated) towards cloud computing resources on the Jetstream supercomputer of the Extreme Science and Engineering Discovery Environment (XSEDE) of the National Science Foundation (NSF) (as administrator)

AWARDS AND SCHOLARSHIPS:

(2014) Howard Hughes Medical Institute (HHMI) International Graduate Fellowship (45 fellows chosen from over 350 applicants)
(2014) Pulin Sampat Memorial Award for the Best Teaching Fellow in the Life Sciences, Brandeis University
(2012) Presidential Life Sciences Fellowship (PLSF), Cornell University, Ithaca (*Declined*).
(2012) Junior Research Fellowship, Council for Scientific and Industrial Research (CSIR), Govt. of India (*Declined*).
(2012) Nominated for the Dr. Shyama Prasad Mukherjee (SPM) Fellowship, CSIR, Govt. of India.
(2011) Summer Research Fellowship, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore.
(2010) Best poster of 2nd day of 19th European chronobiology school (EUCLOCK), JNCASR and EUCLOCK.
(2010) Rajiv Gandhi Science Talent Research Scholarship, Rajiv Gandhi Foundation, New Delhi and JNCASR (Best project under Summer Research Fellowship, 2010).
(2010) Summer Research Fellowship, JNCASR.
(2010) Best participant in SERC school in chronobiology 2010, Department of Science and Technology (DST), Govt. of India.
(2009) CSIR-CPYLS associateship at Centre for Cellular and Molecular Biology (CCMB), Hyderabad, CSIR, Govt. of India.
(2009) Summer Research Fellowship, JNCASR (*Declined*).
(2008) CSIR-CPYLS associateship at CCMB, CSIR, Govt. of India.
(2008) Fellowship under Project Oriented Biological Education (POBE), JNCASR (*Declined*)
(2008) CNR Rao Education Foundation Prize, IISER Kolkata (Best student of the 1st year of integrated B.S – M.S).
(2008) Innovation in Science Pursuit for Inspired Research (INSPIRE) Scholarship for Higher Education (SHE), DST, Govt. of India.
(2006) CSIR Program for Youth on Leadership in Science (CPYLS), CSIR, Govt. of India.
(2006) Harsaran Singh Thapar Memorial Merit Scholarship, Sardar Bahadur Gurbux Singh Thapar Memorial Merit Scholarship, K.K Dass Medal, and, Mrs. Shanti Devi

Sahai Memorial Medal, La-Martiniere College (1st position in ICSE std. 10 examination in both La-Martiniere Colleges in Lucknow).