Vikram Gadagkar, PhD

Curriculum Vitae (Updated on March 22, 2024)

Vikram Gadagkar, PhD

Assistant Professor

Department of Neuroscience

Mortimer B. Zuckerman Mind Brain Behavior Institute

Columbia University

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Web: https://gadagkar.zuckermaninstitute.columbia.edu

EDUCATION AND TRAINING:

2013-2020	Postdoc (Neuroscience)	Cornell University, USA Topic: Neural Mechanisms of Performance Evaluation in Singing Birds Adviser: Prof. Jesse H. Goldberg
2017	Summer Course	Methods in Computational Neuroscience, Marine Biological Laboratory, Woods Hole, MA, USA Course directors: Prof. Michale Fee & Prof. Mark Goldman
2006-2013	Ph.D. (Physics)	Cornell University, USA Thesis: Origin of the Inertial Anomaly in Solid Helium-4: Dislocation Dynamics versus Supersolidity Adviser: Prof. J. C. Seamus Davis
2002-2005	MS (Physics)	Indian Institute of Science, Bangalore, India (Graduated with highest GPA) Thesis: Ab Initio Restricted Hartree-Fock, High Pressure Raman, and Molecular Dynamics Studies on Carbon Nanotubes Adviser: Prof. Ajay K. Sood, FRS
1999-2002	B.Sc. (Physics, Chemistry, Mathematics)	St. Joseph's College, Bangalore University, India (First Class, 2 gold medals)

POSITIONS:

2020-present	Assistant Professor, Department of Neuroscience and the Mortimer B. Zuckerman Mind Brain Behavior Institute, Columbia University, USA
2017-present	NIH K99/R00 Pathway to Independence Fellow
2018-2020	Research Associate, Department of Neurobiology and Behavior, Cornell University, USA
2016-2020	Simons Collaboration on the Global Brain (SCGB) Postdoctoral Fellow
2013-2020	Visiting Scientist, Department of Physics, Cornell University, USA
2013-2018	Postdoctoral Associate, Department of Neurobiology and Behavior, Cornell University, USA
2006-2013	Graduate Research/Teaching Assistant, Department of Physics, Cornell University, USA
2005-2006	Graduate Research Assistant, Department of Physics, Indian Institute of Science, Bangalore, India
1999-2004	Kishore Vaigyanik Protsahan Yojana (KVPY) Fellow, Bangalore, India

AWARDS, FELLOWSHIPS, AND HONORS:

34. Klingenstein-Simons Fellowship Award in Neuroscience (awarded to 13 young scientists in the nation)	2023
33. McKnight Scholar Award (awarded to 10 young scientists in the nation)	2023
32. Konishi Neuroethology Research Award - International Society for Neuroethology (awarded to 4 young scientists in	<u>1</u> 2023
the world)	
31. NIH Director's New Innovator Award – DP2	2022
30. Searle Scholar Award (<u>awarded to 15 young scientists in the nation</u>)	2021
29. American Association for the Advancement of Science AAAS/Science Program for Excellence in Science	2019

28.	Peter and Patricia Gruber International Research Award (Society for Neuroscience) (awarded to 2 young neuroscientists working in an international setting across the world)	2018
27.	K99/R00 Pathway to Independence Award (NIH/NINDS) (awarded to 8 postdocs from NINDS in the nation).	2017
26.	Organization of Computational Neuroscience (OCNS) Award to attend the <i>Methods in Computational Neuroscience</i> course at the Marine Biological Laboratory at Woods Hole (awarded to 2 out of 24 attendees)	2017
25.	William Morton Wheeler Family Founders' Scholarship to attend the <i>Methods in Computational Neuroscience</i> course at the Marine Biological Laboratory at Woods Hole	2017
24.	Simons Collaboration on the Global Brain (SCGB) Postdoctoral Fellowship (awarded to 8 postdocs across the world)	2016
23.	Computational and Systems Neuroscience (COSYNE) Presenters Travel Award	2015
22.	Douglas Fitchen Memorial Travel Award, Department of Physics, Cornell University (awarded to 1 graduate student).	2011
21.	International Conference in Low Temperature Physics (LT26) Travel Award	2011
20.	Cornell University Graduate School Conference Award	2011
19.	Cornell Graduate Fellowship, Department of Physics, Cornell University	2006
18.	Junior Research Fellowship (JRF) in the National Eligibility Test (NET), Government of India, declined.	2004
17.	Kumari L. A. Meera Award for the highest CGPA in MS (Physical Sciences), Indian Institute of Science, Bangalore	2002-2003
16.	Rhodes Scholarship Finalist	2002
15.	Sri B. K. Srinivasa Iyengar Memorial Gold Medal in Mathematics and Chemistry, Bangalore University, India ($\underline{1}$ out of several hundred)	2002
14.	Shikshana Shilpi Shri P. Mallikarjunappa Memorial Gold Medal in Physical Chemistry, Bangalore University, India (<u>1 out of several hundred</u>)	2002
13.	A. N. Sridhara Prize for the best all-around student in St. Joseph's College, Bangalore University, India (<u>1 out of several hundred</u>)	2002
12.	Srinivasa Masty Memorial Prize for Mathematics, St. Joseph's College, Bangalore University, India	2002
11.	Phys. Sci. Assoc. Old Students' award for the most outstanding student, St. Joseph's College, Bangalore Univ., India (1 out of several hundred)	2002
10.	Jaya Krishnan Prize for highest marks in all B.Sc. exams, St. Joseph's College, Bangalore University, India	2002
9.	M. V. Jaganath Prize for highest marks in final B.Sc. exams, St. Joseph's College, Bangalore University, India	2002
8.	Rev. Fr. Elias D'Souza S. J. Prize for Mathematics, St. Joseph's College, Bangalore University, India	2002
7.	Prof. H. S. Srinivasa Rao Prize for highest marks in B.Sc. (PCM), St. Joseph's College, Bangalore University, India	2002
6.	Certificate of Excellence in Lecture Competitions, St. Joseph's College, Bangalore University, India	2000
5.	Awards in 9 science presentation contests and 14 science quizzes at the intercollegiate level in Bangalore, India	1999-2002
4.	Kishore Vaigyanik Protsahan Yojana (KVPY) Fellowship, Govt. of India (awarded to 7 undergraduates in the nation).	1999-2004
3.	Principal's Prize for highest marks in 1st year B.Sc. University Exam, St. Joseph's College, Bangalore Univ., India	2000
2.	Special Prize for Academic Excellence in the All India Sec. School Exam of Central Board of Secondary Education	1997
1.	Awarded the best all-around student in high school (KVIISc) (awarded to 1 out of 70 students).	1997

PUBLICATIONS:

*Co-first authors

*Co-corresponding authors

18. Dopaminergic error signals retune to social feedback during courtship

A. Roeser*, **Vikram Gadagkar****, A. Das, P. A. Puzerey, B. Kardon and J. H. Goldberg* *Nature* (Cover Article) 623, 375-380 (2023)

This work has been featured in:

Nature Neuroscience, Zuckerman Institute News, Cornell Chronicle, Forbes, Science Daily, Neuroscience News, Earth.com, Nature World News, Phys.org, Mirage News

17. Dopamine neurons evaluate natural fluctuations in performance quality

A. Duffy, K. W. Latimer, J. H. Goldberg, A. L. Fairhall[#] and **Vikram Gadagkar**[#] *Cell Reports* 38, 110574 (2022)

This work has been featured in:

Simons Foundation News

16. Movement signaling in ventral pallidum and dopaminergic midbrain is gated by behavioral state in singing birds

R. Chen, Vikram Gadagkar, A. C. Roeser, P. A. Puzerey and J. H. Goldberg

Journal of Neurophysiology 125, 2219-2227 (2021)

15. Dopamine Neurons Encode Performance Error in Singing Birds

Vikram Gadagkar, P. A. Puzerey, R. Chen, E. Baird-Daniel, A. Farhang and J. H. Goldberg *Science* 354, 1278-1282 (2016)

This work has been featured in:

Science Magazine Perspective, Simons Foundation Newsletter, CornellCast Video, Cornell Chronicle, The Scientist Magazine, Voice of America, Vice Magazine, Science Daily, Cosmos Magazine, Real Clear Life, Science News, Medium, My Science, Cornell Research, Journal of Experimental Biology

14. A Variability-Generating Circuit Goes Awry in a Songbird Model of the FOXP2 Speech Disorder

Vikram Gadagkar and J. H. Goldberg

Neuron (Preview) 80, 1341-1344 (2013)

13. Generalized Rotational Susceptibility Studies of Solid ⁴He

Vikram Gadagkar, E. Pratt, B. Hunt, M. Yamashita, M. J. Graf, A. V. Balatsky, and J. C. Davis *Journal of Low Temperature Physics* 169, 180-196 (2012)

12. Interplay of Rotational, Relaxational, and Shear Dynamics of Solid ⁴He

E. Pratt*, B. Hunt*, **Vikram Gadagkar**, M. Yamashita, M. J. Graf, A. V. Balatsky, and J. C. Davis *Science* 332, 821-824 (2011)

This work has been featured in:

Nature News Blog, The Kavli Foundation, Los Alamos News, AAAS EurekAlert, Science Daily, Space Daily, Phys.org

11. Evidence for a Superglass State in Solid ⁴He

B. Hunt*, E. Pratt*, **Vikram Gadagkar**, M. Yamashita, A. V. Balatsky, and J. C. Davis *Science* 324, 632-636 (2009)

This work has been featured in:

Science Perspective, Cornell Chronicle, Journal Club for Condensed Matter Physics, Physics World, Physics Today, Questia, Nanowerk

10. Irreversible pressure-induced transformation of boron nitride nanotubes

S. Saha, Vikram Gadagkar, P. K. Maiti, D. V. S. Muthu, D. Golberg, C. Tang, C. Zhi, Y. Bando, and A. K. Sood *Journal of Nanoscience and Nanotechnology* 7(6), 1810-1814 (2007)

9. Double-walled carbon nanotubes under hydrostatic pressure: Raman experiments and simulations

Vikram Gadagkar, S. Saha, D. V. S. Muthu, P. K. Maiti, Y. Lansac, A. Jagota, A. Moravsky, R. O. Loutfy, and A. K. Sood

Journal of Nanoscience and Nanotechnology 7(6), 1753-1759 (2007)

8. Collapse of double-walled carbon nanotube bundles under hydrostatic pressure

Vikram Gadagkar, P. K. Maiti, Y. Lansac, A. Jagota, and A. K. Sood *Physical Review B* 73, 085402 (2006)

7. High pressure Raman spectroscopy of double-walled carbon nanotubes

Vikram Gadagkar, S. Saha, D. V. S. Muthu, P. Ramesh, H. Shinohara, R. O. Loutfy, and A. K. Sood *Proceedings of the 50th Department of Atomic Energy - Solid State Physics Symposium* (2005)

6. Strains induced in carbon nanotubes due to the presence of ions: ab-initio restricted Hartree-Fock calculations

S. Ghosh, Vikram Gadagkar, and A. K. Sood

Chemical Physics Letters 406, 10-14 (2005)

Faster development does not lead to correlated evolution of greater pre-adult competitive ability in *Drosophila melanogaster* M. Shakarad, N. G. Prasad, K. Gokhale, Vikram Gadagkar, M. Rajamani, and A. Joshi.
 Biology Letters 1, 91-94 (2005)

4. Communal courtship (?) in the Yellow Wattled Lapwing

> Vikram Gadagkar, L. Shyamal, N. V. Arakeri, M. Ramakrishnan, A. Kumar, and G. A. Uday Raghavan *Newsletter for Birdwatchers* 39(4), 66-67 (1999)

3. Little Grebe or Dabchick - a new sighting in the Indian Institute of Science campus, Bangalore

> Vikram Gadagkar, L. Shyamal, N. V. Arakeri, M. Ramakrishnan, and A. Lahiri Newsletter for Birdwatchers 39(4), 67 (1999)

Blue-throated Flycatcher, Indian Great Reed Warbler, Common Rosefinch and Lesser Golden-backed Woodpecker - four new 2. species in the Indian Institute of Science campus, Bangalore

> Vikram Gadagkar, L. Shyamal, M. Ramakrishnan, N. V. Arakeri, S. Venkatesh, A. Lahiri, and A. Hariharan *Newsletter for Birdwatchers* 35(4), 69-70 (1995)

White-Browed Bulbul - A new sighting in the Indian Institute of Science campus, Bangalore 1.

> Vikram Gadagkar, N. V. Arakeri, and M. Ramakrishnan Newsletter for Birdwatchers 34(4), 96 (1994)

ARTICLES FOR A WIDER AUDIENCE:

1. How practice makes perfect: dopamine clues from a songbird

Vikram Gadagkar

Simons Foundation Newsletter (2017)

RESEARCH SUPPORT:

8.	Klingenstein-Simons Fellowship Award in Neuroscience	2023-present
7.	McKnight Scholar Award	2023-present
6.	Konishi Neuroethology Research Award - International Society for Neuroethology	2023-present
5.	NIH Director's New Innovator Award – DP2	2022-present
4.	Searle Scholars Award	2021-present
3.	Columbia University/Zuckerman Institute Startup Funds	2020-present
2.	K99/R00 (NIH/NINDS) Pathway to Independence Award	2017-present
1.	Simons Collaboration on the Global Brain (SCGB) Postdoctoral Fellowship	2016-2017

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INVI	TED TALKS:	
63.	Neural Mechanisms of Performance Evaluation in Singing Birds	2024
	Labroots 12th Annual Neuroscience Event/NIH BRAIN Initiative	
62.	Does Dopamine Guide Vocal Learning?	2023
	Faculty Talk, Zuckerman Institute, Columbia University, New York, USA.	
61.	Neural Mechanisms of Performance Evaluation in Singing Birds	2023
	Neurobiology and Behavior Graduate Student Bootcamp, Columbia University, New York, USA.	
60.	Neural Mechanisms of Performance Evaluation in Singing Birds	2023
	Max Planck Institute of Animal Behavior and University of Konstanz, Konstanz, Germany.	
59.	Neural Mechanisms of Performance Evaluation in Singing Birds	2023
	New York State Psychiatric Institute, Columbia University Irving Medical Center, New York, USA.	
58.	Neural Mechanisms of Performance Evaluation in Singing Birds	2023
	University of Washington (supported by the HHMI Gilliam Fellowship), Seattle, USA.	
57.	Dopamine neurons change their tuning according to courtship context in singing birds	2023
	University Seminar for the Integrative Study of Animal Behavior, Columbia University, New York, USA.	
56.	Does Practice Make Perfect? How the Brain Learns Language in a Social World	2022
	Brain Insight Lecture, Stavros Niarchos Foundation & Zuckerman Institute, Columbia University, New York, USA.	

SPiNES: Seminars from Post-docs in Neuroscience: Extramural Series, New York University, New York, USA.

Dopamine Neurons Encode Performance Error in Singing Birds

32.

2017

31.	Dopamine Neurons Encode Performance Error in Singing Birds	2016
	Birdsong 6 – Integrating neural, social, and evolutionary influences on communication, San Diego, USA.	
30.	Dopamine Neurons Encode Performance Error in Singing Birds	2016
	University of Washington, Seattle, USA.	
29.	Dopamine Neurons Encode Performance Error in Singing Birds	2016
	Simons Collaboration on the Global Brain (SCGB) Annual Meeting, New York, USA.	
28.	How Does Practice Make You Perfect? Clues from a Songbird	2016
	Cornell Undergraduate Society for Neuroscience (CUSN), Cornell University, Ithaca, USA.	
27.	Dopamine neurons encode performance quality relative to recent practice in singing birds	2016
	Neurobiology and Behavior Graduate Student Symposium, Cornell University, Ithaca, USA	
26.	Dopamine Neurons Encode Performance Error in Singing Birds	2015
	Lewis-Sigler Institute for Integrative Genomics, Princeton University, Princeton, USA.	
25.	How is Trial and Error Learning Implemented in the Brain?	2015
	J. C. Séamus Davis Group Meeting, Department of Physics, Cornell University, Ithaca, USA	
24.	Dopamine neurons encode performance error in singing birds	2015
	Neurobiology and Behavior Graduate Student Symposium, Cornell University, Ithaca, USA	
23.	Zebra finch ventral tegmental area neurons encode song prediction error	2015
	COSYNE 2015: Computational and Systems Neuroscience, Salt Lake City, USA	
22.	If Zebra Finches Learn Their Song Through Trial and Error, Where is the Error Signal?	2014
	Centre de Neurophysique, Physiologie et Pathologie, University of Paris Descartes, Paris, France	
21.	If Zebra Finches Learn Their Song Through Trial and Error, Where is the Error Signal?	2014
	Institute of Neuroinformatics, University of Zurich/ETH, Zurich, Switzerland	
20.	If Zebra Finches Learn Their Song Through Trial and Error, Where is the Error Signal?	2014
	Bernstein Center for Computational Neuroscience, Humboldt University, Berlin, Germany	
19.	Neural Mechanisms of Trial and Error Learning	2014
	Biomedical Engineering Society Retreat, Cornell University, Ithaca, USA	
18.	If Zebra Finches Learn Their Song Through Trial and Error, Where is the Error Signal?	2014
	Research Design in the Study of Animal Social Behavior, Department of Neurobiology and Behavior, Cornell University, Ithaca, USA	
17.	How Practice Makes You Perfect: Reverse Engineering the Zebra Finch Brain	2013
	Cornell Electron Devices Society, Cornell University, Ithaca, USA	
16.	v e	2013
	National Centre for Biological Sciences, Bangalore, India	
15.	How does Practice Make you Perfect? Insights from the Songbird Brain	2013
	St. Joseph's College, Bangalore, India	
14.	Supersolid or a Network of Defects? The Tortuous Story of Solid Helium	2013
	Department of Physics, Indian Institute of Science, Bangalore, India	
13.	In Search of 'Actor' and 'Critic' Neurons in the Zebra Finch Song Circuit	2013
	Centre for Neuroscience, Indian Institute of Science, Bangalore, India	
12.	In Search of 'Actor' and 'Critic' Neurons in the Zebra Finch Song Circuit	2013
	Research Design in the Study of Animal Social Behavior, Department of Neurobiology and Behavior, Cornell University, Ithaca, USA	
11.	Supersolid or a Network of Defects? The Tortuous Story of Solid Helium	2013
	Cornell Electron Devices Society, Cornell University, Ithaca, USA	
10.	'Supersolid' He-4: A New State of Matter?	2009
	Jawaharlal Nehru Center for Advanced Scientific Research, Bangalore, India	
9.	'Supersolid' He-4: A New State of Matter?	2009
	Department of Physics, Indian Institute of Science, Bangalore, India	

WORKSHOPS AND SCHOOLS:

11. Faculty Mentor Bystander Intervention Training, Columbia University, USA

50th Department of Atomic Energy Solid State Physics Symposium, Mumbai, India

Vik	Curriculum Vitae	
10.	Crawford Bias Reduction Theory & Training (CRBT) – Targeted Lab/Team Intervention, Zuckerman Institute, Columbia University, USA	2022-2023
9.	Center for the Improvement of Mentored Experiences in Research (CIMER) Mentor Training for PIs, Zuckerman Institute, Columbia University, USA	2022
8.	Crawford Bias Reduction Theory & Training (CRBT), Zuckerman Institute, Columbia University, USA	2021-2022
7.	The PI Crash Course: Skills for Future or New Lab Leaders, Columbia University, USA	2020
6.	Methods in Computational Neuroscience, Marine Biological Laboratory, Woods Hole, MA, USA	2017
5.	Kodai Summer School in Quantum Mechanics, Statistical Mechanics and Non-Linear Dynamics, Indian Institute of Astrophysics (IIA), Bangalore, India	2003
4.	100-hour workshop in Space Sciences conducted by St. Joseph's College, Bangalore University, India	2002
3.	100-hour workshop in Reaction Mechanisms, St. Joseph's College, Bangalore University, India	2001
2.	100-hour workshop in Spectroscopy, St. Joseph's College, Bangalore University, India	2000
1.	100-hour workshop on <i>Human Resource Development</i> , St. Joseph's College, Bangalore University, India	2000
LEA	DERSHIP AND SERVICE:	
Con	ferences and Meetings:	
6.	Upcoming: Co-Chair (elected), Gordon Research Conference – Neural Mechanisms of Acoustic Communication	2026
5.	Upcoming: Discussion Leader, Gordon Research Conference – Neural Mechanisms of Acoustic Communication	2024
4.	Upcoming: Co-Vice Chair (elected), Gordon Research Conference – Neural Mechanisms of Acoustic Communication	2024
3.	Organizing Member, Zuckerman Institute Gender Inclusion Group (ZIGI)	2021-present
2.	Conference session moderator, Virtual Dopamine (ViDA) Conference: The Future of Dopamine	2020
1.	Co-organized a NeuroDinner event for the Program in Neuroscience, Cornell University	2014
Sele	ction Committees:	
6.	Neurobiology and Behavior Graduate Program, Columbia University	2023-2024
5.	Zuckerman Institute Postdoc Fellows Program, Zuckerman Institute, Columbia University	2023
4.	Faculty Search Committee, Zuckerman Institute, Columbia University	2021
3.	Artist Selection Committee, Art in the Education Lab, Zuckerman Institute, Columbia University	2021 & 2022
2.	Interviewer for Doctoral Program in Neurobiology and Behavior, Columbia University	2021 & 2022
1.	Colloquium committee: Department of Physics, Cornell University	2008
Peer	Review:	
7.	Member, NIH Neurobiology of Motivated Behavior Study Section	2023
6.	Member, NIH/NINDS Special Emphasis Panel on Music and Health	2022
5.	Reviewer, Columbia University's Research Initiatives in Science and Engineering (RISE) Competition	2020-2021
4.	Abstract Reviewer, Computational and Systems Neuroscience (Cosyne)	2017
3.	Review Panelist, National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP)	2016
2.	Reviewed honors thesis for Biological Sciences Honors Program, Cornell University	2015 & 2016
1.	Reviewed grant proposals for Sigma Xi Cornell University Chapter	2015 & 2016

Journal Review:

Current Biology

Proceedings of the National Academy of Sciences (PNAS)

Progress in Neurobiology

Vikram Gadagkar, PhD Cur					
Pan	elist:				
4.					
3.	Postdoc-Faculty Coffee Chat, Zuckerman Institute, Columbia University,	USA		2021	
2.	Panelist for Columbia Access Neuroscience (CAN) – a program for student backgrounds in neuroscience, Columbia University, USA	nts from underrepresent	ed	2021 & 2022	
1.	Panelist for the Yale Neuroscience Career Panel, Department of Neuros USA	science, Yale Universit	ty,	2021	
PhD	Thesis Committee:				
3.	Ching Fang (Abbott & Aronov labs), Zuckerman Institute, Columbia Uni	iversity	2023-present	t	
2.	John Lindsey (Litwin-Kumar lab), Zuckerman Institute, Columbia Unive	•	2022-2024		
1.	Yow-Tyng Yeh (Woolley lab), Zuckerman Institute, Columbia University	•	2021-present	t	
PhD	Qualifying Exam Committee:				
3.	Ishani Ganguly (Behnia and Abbott Labs), Zuckerman Institute, Columbia	ia University	2022		
2.	John Lindsey (Litwin-Kumar lab), Zuckerman Institute, Columbia Unive		2021		
1.	Ching Fang (Abbott & Aronov labs), Zuckerman Institute, Columbia Uni	iversity	2021		
Exte	ernal PhD Thesis Committee:				
1.	Xueqian Ma (Hahnloser lab), ETH Zurich		2024-present	t	
MEMBERSHIPS:					
7.	International Society for Neuroethology	2023 - present			
6.	Society for Social Neuroscience	2023 - present			
5.	Dopamine Society, Founding Member	2022 - present			
4.	American Association for the Advancement of Science (AAAS)	2019 - present			
3.	Sigma Xi, The Scientific Research Society	2018 - present			
2.	Organization for Computational Neurosciences (OCNS)	2018 - present			
1.	Society for Neuroscience (SfN)	2015 - present			
TEA	ACHING AND MENTORING:				
Cou	rses:				
13.	UN3005 Neurobio II: Devpt & Systems, Columbia University (Guest Le Songbirds)	ecture on Reinforcemen	nt Learning in	2023-2024	
12.	BMSC-GA-4463: Readings in Neuroscience, New York University (Gue.	st Faculty)		2022	
11.	MUSI AV4000 – <i>Music, Math, and Mind</i> , Columbia University (Guest Led – Dopamine Clues from a Songbird)	cture on How Practice I	Makes Perfect	2022-2023	
10.	E3B GR6450 – <i>Ethology and the Evolution of Behavior</i> , Columbia Ulearning and Dopamine)	University (Guest Lec	ture on Song	2021-2022	
9.	PS 521/NE 521 – Animal Models in Behavioral Neuroscience, Boston Ur	niversity (Guest Faculty	y)	2020	
8.	Academic Application Boot Camp, Columbia University (Lecture on H Statement and Session on Research Statement Live Q&A)	Iow to Write an Effect	tive Research	2020	
7.	NB&B GR6055 – Survey Neuroscience II, Columbia University (Lecture	on Motor Performance	in Songbirds)	2020-2024	
6.	BIONB 2220 – <i>Introduction to Neuroscience</i> , Department of Neurobiolo (Guest Lecture on Basal Ganglia and Reinforcement Learning)	gy and Behavior, Corn	ell University	2016	
5.	PHYS 1101 - General Physics I, Department of Physics, Cornell University	sity (Teaching Assistan	t)	2012	

PHYS 1117 - Concepts of Modern Physics, Department of Physics, Cornell University (Grader)

PHYS 208 - Fundamentals of Physics II, Department of Physics, Cornell University (Teaching Assistant)

PHYS 101/102 - General Physics I/II, Department of Physics, Cornell University (Teaching Assistant)

4.

3.

2.

2008

2008

2007

2007

1.	PHYS 208 – Fundamentals of Physics II, Department of Physics	, Cornell University (Teaching A	Assistant)
Gra	duate Students:		
4.	Nathan Nadler, Zuckerman Institute, Columbia University	2023-present	
3.	Jessica Burke, Zuckerman Institute, Columbia University	2022-present	
2.	Hannah Chen, Zuckerman Institute, Columbia University	2021-present	
1.	Jonathan Kasdin, Zuckerman Institute, Columbia University	2020-present	
Post	bacs:		
4.	Malavika Eswaran, Zuckerman Institute, Columbia University	2023-present	
3.	Amanuel Sahilu, Zuckerman Institute, Columbia University	2022-present	
2.	Arnav Raha, Zuckerman Institute, Columbia University	2021-2023	
1.	Jessica Burke, Zuckerman Institute, Columbia University	2020-2021	
Und	ergraduate Students:		
10.	Kayla Davis, Zuckerman Institute, Columbia University (Leader	ship Alliance Program)	2023
9.	D'Juan Moreland, Zuckerman Institute, Columbia University (N	IH U-RISE Program)	2023
8.	Aditi Borde, Zuckerman Institute, Columbia University	•	2023-present
7.	Malavika Ramarao, Department of Neurobiology and Behavior,	Cornell University	2019-2020
6.	Archana Podury, Department of Neurobiology and Behavior, Co	•	2016-2018
5.	Alexander Farhang, Department of Neurobiology and Behavior,	•	2014-2015
4.	Eliza Baird-Daniel, Department of Neurobiology and Behavior,	•	2013-2015
3.	Praveen Narayanan, Department of Physics, Cornell University	•	2011
2.	Neal Harrington, Department of Physics, Cornell University		2011
1.	James McArdle, Department of Physics, Cornell University		2011
Hiøl	n School Students:		
1.	Aminata Diallo, Zuckerman Institute, Columbia University (BR.	AINYAC Program)	2023
Visi	ting Students:		
1.	Xueqian Ma, ETH Zurich (Hahnloser Lab)		2023
OUT	TREACH/PODCASTS/INTERVIEWS:		
16.	Jazz Meets Neuroscience with Terri Lyne Carrington, Zuckerman York, USA	Institute, Columbia University, I	New 2024
15.		Dance with neuroscientist and da	ncer 2022
14.	Jazz Listening Party with Miguel Zenon – Instrumental Mast Institute, Columbia University, New York, USA	ery and Neuroscience, Zucker	man 2021
13.	Sound Waves and Brain Waves: Birdbrains and Love Songs – ep Miguel Zenon, Zuckerman Institute, Columbia University and (NoMAA), New York, USA		
12.	Scientific Sense Podcast with Gill Eapen		2021
11.	Featured in <i>Journey of the Early Career Scientist</i> – hosted by the Behavior Institute, Columbia University, New York, USA	Mortimer B. Zuckerman Mind B	5rain 2020
10.	Selected to speak at the inaugural SPARK talks - Scholars Present How does practice make you perfect? Clues from a songbird, University, Ithaca, USA		
9.	Co-organized a workshop <i>Play or get played: game theoretic idea</i> Your Horizons: Motivating Young Women in Science+Mathemat		

Vik	Curriculum Vitae	
8.	Co-organized a series of popular science lectures for students and the public through Looking Around: Students' Group for Interdisciplinary Interactions, Indian Institude of Science, Bangalore, India	2005
7.	Conducted a city-wide science quiz for undergraduates at St. Joseph's College, Bangalore University, Bangalore, India	2004
6.	Conducted a science quiz for students awarded the National Science Fellowship (KVPY) at the Indian Institute of Science, Bangalore, India	2004
5.	Conducted a science quiz for students awarded the National Science Fellowship (KVPY) at the Indian Institute of Science, Bangalore, India	2003
4.	Conducted the 13 th annual Smt. Mrudula Vaidya City Wide Science Quizzes for high school students at the Indian Institute of Science, Bangalore, India	2002
3.	Conducted the 12 th annual Smt. Mrudula Vaidya City Wide Science Quizzes for high school students at the Indian Institute of Science, Bangalore, India	2001
2.	Conducted the 11 th annual Smt. Mrudula Vaidya City Wide Science Quizzes for high school students at the Indian Institute of Science, Bangalore, India	2000
1.	Conducted the 10 th annual Smt. Mrudula Vaidya City Wide Science Quizzes for high school students at the Indian Institute of Science, Bangalore, India	1999