

Prerana Shrestha, Ph.D.

Curriculum Vitae

Life Sciences Building
Department of Neurobiology & Behavior
Renaissance School of Medicine
Stony Brook University
Stony Brook, NY 11794

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EDUCATION

2003-2011	The Rockefeller University New York, NY	Ph.D. in Life Sciences
1999-2003	Bates College Lewiston, ME	B.S. in Biological Chemistry <i>Magna cum Laude</i>

RESEARCH EXPERIENCE

2021-present	Assistant Professor – Stony Brook University, Stony Brook, NY Department of Neurobiology & Behavior
2014-2020	Postdoctoral Associate - NYU Center for Neural Science, New York, NY Laboratory of Dr. Eric Klann
2011-2013	Postdoctoral Associate - The Rockefeller University, New York, NY Laboratory of Dr. Nathaniel Heintz
2004-2011	Graduate Research Fellow - The Rockefeller University, New York, NY Laboratory of Dr. Nathaniel Heintz
2002-2003	Undergraduate Research Fellow – Harvard Medical School, Boston, MA Laboratory of Dr. John Blenis

HONORS & AWARDS

2022	Young Pioneer in Neuroscience, Nepali Women's Global Network
2022-2024	Scialog Fellow, Molecular Basis of Cognition, RCSA
2022	Kavli Fellow, National Academy of Sciences
2022	Invited Speaker, 19th Chinese-American Kavli Frontiers of Science symposium
2022	Sloan Research Fellow, Alfred P. Sloan Foundation

2020	Kavli mini-symposium – Invited Speaker, The Rockefeller University
2019	European Molecular Biology Conference Travel Award, NCBS
2019	Anuradha Rao Memorial Award, Cell Press & Rao family
2018	Tianqiao & Chrissy Chen Travel Fellow, CSHL & Chen Institute
2017-2020	NARSAD Young Investigator, Brain & Behavior Research Foundation (BBRF)
2017	Molecular & Cellular Cognition Society (MCCS) Scholar
2001-2003	Charles A. Dana Scholar, Bates College
2003	College Key of Bates College
1996	Ratna Education Medal, School Leaving Certificate (SLC), Nepal Government

RESEARCH FUNDING

NIMH/NIH R01 1R01MH132795 (12/2023 – 10/2027)

Prefrontal pathway-specific modulation of protein synthesis in emotional memories

Sloan Research Fellowship, Alfred P Sloan Foundation (09/2022 – 09/2024)

Spatiotemporally-resolved protein synthesis dynamics during learned emotional behaviors

NARSAD Young Investigator Grant, Brain & Behavior Research Foundation (2017 - 2020)

Travel Award for Junior Scientist Workshop in Neuronal Cell Biology, Janelia Farm, VA (May 2017)

Full Undergraduate Scholarship, Bates College (1999 - 2003)

HHMI Independent Research Grant, Bates College (Summer 2002)

Sigma Xi Grant-in-aid-of-Research, Sigma Xi Scientific Research Society (Summer 2002)

Hoffman Mellon Research Support Grant, Bates College (Summer 2000, 2001)

PUBLICATIONS

Boender, A.J., Boon, M., Albers, H.E., Eck, S.R., Fricker, B.A., Kelly, A.M., Motta, S.C., **Shrestha, P.**, Taylor, J.H., Trainor, B.C., Triana-Del Rio, R., Young, L.J. *An AAV-CRISPR/Cas9-strategy for gene editing across divergent rodent species: targeting neural oxytocin receptors as a proof of concept. Science Advances 2023. 9(22). doi:10.1126/sciadv.adf495

Triano-Del Rio, R., Ranade, S., Guardado, J., Ledoux, J., Klann, E. & **Shrestha, P.** The modulation of stress/threat and social behaviors by oxytocin signaling in the limbic network. Frontiers in Molecular Neuroscience. 15:1002846. doi:10/3389/fnmol.2022.1002846

Shrestha, P. & Klann, E. Spatiotemporally-resolved protein synthesis as molecular framework for memory consolidation. Trends in Neurosciences 2022. 45(4): 297-311. doi: 10/1016/j.tins.2022.01.004

Shrestha, P.*, Shan, Z., Marmacz, M., Zerihoun, A.T., Juan, C-Y., San Agustin Ruiz, K., Pelletier, J., Heintz, N. & Klann, E*. Amygdala inhibitory neurons as loci for translational control of emotional memories. Nature 2020. 586(7829):407-411. doi: 10.1038/s41586-020-2793-8

*Corresponding authors

Shrestha, P.*, **Ayata, P.***, Vidal, P.H., Gastone, A., Heintz, N. & Klann, E. Cell-type-specific drug-inducible protein synthesis inhibition demonstrates that memory consolidation requires rapid neuronal translation. Nature Neuroscience 2020. 23(2):281-292. doi: 10.1038/s41593-019-0568-z

*Equal contribution

Shrestha, P. & Klann, E. Alzheimer's disease: Lost memories found. Nature 2016. Mar 24; 531(7595):450-1

Shrestha, P., Mousa, A. & Heintz, N. Layer 2/3 pyramidal cells in the medial prefrontal cortex moderate stress induced depressive behaviors. eLife 2015; e08752

Previewed by: Park CS, Yang XW. Neuropsychiatric disorders: probing stress & depression circuits with a disease gene. eLife 2015; e10829

Doyle, J.P., Dougherty, J.D., Heiman, M., Schmidt, E.F., Stevens, T.R., Ma, G., Bupp, S., **Shrestha, P.**, Shah, R.D., Doughty, M.L., Gong, S., Greengard, P. & Heintz, N. Application of a translational profiling approach for the comparative analysis of CNS cell types. Cell. 2008 Nov 14: 135 (4): 749-62.

MANUSCRIPTS SUBMITTED/ PREPRINT

Alapin, J.M., Mohamed, M.S., **Shrestha, P.**, Khaled, H., Vorobyeva, A.G., Bowling, H.L, Woolley, A.G. Oliviera, M.M., & Klann, E. Opto4E-BP, an optogenetic tool for inducible, reversible, and cell type-specific inhibition of translation initiation. bioRxiv 2023. doi.org/10.1101/2023.08.30.554643, PMID: 37693507

INVITED TALKS

- Shrestha, P. Oxytocin neuromodulation of stress-induced anxiety in Tuberous Sclerosis Complex. Molecular and Cellular Cognition Society Annual Meeting, Washington DC. November 2023
- Shrestha, P. Protein Synthesis Regulation in Emotional Behaviors in Health and Disease. NBB Department Annual Retreat, Stony Brook University, NY. September 2023
- Shrestha, P. Cell type-specific nascent protein synthesis during memory consolidation. The International Conference on Learning and Memory, Surf City, CA. April 2023
- Shrestha, P. Role of Protein Synthesis in Prefrontal-amygdala Network During Consolidation of Emotional Memories. Workshops for Interaction and Scientific Collaboration, Albany. October, 2022
- Shrestha, P. Neuronal protein synthesis during consolidation of long-term emotional memories. Horizons in Molecular Biology. Max Planck Institute for Molecular Biology. September, 2022
- Shrestha, P. Protein synthesis modulation during long-term emotional memories. 19th Chinese-American Kavli Frontiers of Science symposium, Irvine, CA. July, 2022
- Shrestha P. Spatiotemporally resolved protein synthesis as a molecular framework for memory consolidation. NACA Annual meeting. April, 2022
- Shrestha, P. Translation modulatory pathways in learned emotional behaviors. IBRO-APRC School on Understanding Neuroscience & the Spectrum of Neurogenetic Disorders. IBRO – August, 2021

- Shrestha, P. Protein synthesis regulation during consolidation of long-term emotional memories. Kavli Neural Systems mini-symposium: RNA regulation & brain function. The Rockefeller University – October, 2020
 - Shrestha, P. Using chemogenetic strategies to understand amygdalar protein synthesis regulation during long term memory consolidation. University of California at Berkeley – February, 2020
 - Shrestha, P. Investigating long-term emotional memories with chemogenetic protein synthesis inhibition in the amygdala. Icahn School of Medicine at Mount Sinai, New York, NY - January 2020
 - Shrestha, P. Investigating long-term emotional memories with chemogenetic protein synthesis inhibition in the amygdala. NYU Center for Neural Science Retreat, Skytop Lodge, PA – November, 2019
 - Shrestha, P. A protein synthesis code for differential threat memory trace in central amygdala neurons. SfN Nanosymposium: Molecular mechanisms of memory formation & reconsolidation. Chicago – October, 2019
 - Shrestha, P. Disrupting memory consolidation by blocking protein synthesis with a chemogenetic strategy. Junior Scientist Workshop in Neuronal Cell Biology, Janelia Farm – May, 2017
 - Shrestha, P. Disrupting memory consolidation by blocking protein synthesis with a chemogenetic strategy. Annual Neuroscience Retreat, NYU Neuroscience Institute, Mohonk Mountain, NY – April, 2017
 - Shrestha, P. mTORC1 in the central Oxytocin system & social behavior. NYU Langone Medical Center – January, 2017
 - Shrestha, P. Disrupting memory consolidation by blocking protein synthesis with a chemogenetic strategy. Molecular & Cellular Cognition Society Annual Meeting – November, 2016
 - Shrestha, P. Role of a novel cell type in mouse neocortex in stress-induced depression. Central Department of Biotechnology, Tribhuvan University, Kathmandu, Nepal – December, 2014
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SELECTED CONFERENCE ABSTRACTS

- Tabaka, O., Lawal, S., Triana, R.D., Hou, M., Marmarcz, M., Ruiz, K.S.R., Kim, S., Oliviera, M., Ledoux, J., Heintz, N., Klann, E., & **Shrestha, P.** Oxytocin neuromodulation of social isolation-induced anxiety in Tuberous Sclerosis Complex. Society for Neuroscience Annual Meeting, Washington DC - 2023
- Alapin, J.M., Mohamed, M., Olivera, M.M., **Shrestha, P.**, Khaled, H., Bowling, H., & Klann, E. Light-activated regulation of eIF4E by an Opto-4EBP for conditional and inducible protein synthesis inhibition in the brain. Society for Neuroscience Annual Meeting, San Diego, CA - 2022
- Triana-Del Rio, R., Yin, A., Farb, C., Hou, M., Hubley, K., Yaragudri, V., Blessing, E., Klann, E., Song, S., Constantinople, C., Da Cruz, J.O., Metha, S., Alberini, C., **Shrestha, P.**, Andrade, E., Flem, S., Sears, R., Cain, C., & Ledoux, J. A cannabinoid-sensitive amygdalo-accumbens circuit for learning proactive threat-coping responses. Society for Neuroscience Annual Meeting, San Diego, CA - 2022
- **Shrestha, P.**, Juan C-Y., Oliviera, M.M., Ruiz, K.S.A., Singh, M., Triano-Del Rio, R., Hou, M., Farb, C., Boender, A., Marmarcz, M., Chime, A., Pena, N., Chong, A., Fraser, A., Young, L., Ledoux, J. & Klann E. Stress induced emotional dysregulation in a mouse model of Tuberous Sclerosis complex. Society for Neuroscience virtual meeting - 2021
- Triana-Del Rio R, Andrade E, Yaragudri V, Branigan L, Farb C, da Cruz J, Hou M, Piper W, Oyarzun JP, Cunha C, Li Y, **Shrestha, P.**, Alberini C, Constantinople C, Klann E, Sears R, Cain C, & Ledoux J. Cannabinoid signals modulate the amygdalostriatal circuit for learning proactive threat-coping. Society for Neuroscience Global Connectome Meeting (virtual) - 2021
- **Shrestha, P.**, Shan Z, Marmarcz M, Zerihoun AT, Juan CJ, San Agustin Ruiz K, Herrero-Vidal PM, Pelletier J, Heintz N, & Klann E. *De novo* translation in distinct centrolateral amygdala interneurons is required for long-term emotional memories. Pavlovian Society Annual Meeting, Vancouver, Canada - 2019
- **Shrestha, P.**, Ayata P, Gastone A, Herrero PM, Heintz N, Klann E. Chemogenetic evidence for the requirement of protein synthesis during long term memory consolidation. Brain & Behavior: Order & Disorder in the Nervous System. Cold Spring Harbor Symposium, Cold Spring Harbor, NY - 2018

- **Shrestha, P.**, Ayata P, Gastone A, Herrero PM, Heintz N, Klann E. Chemogenetic interrogation of cell type specific translation in threat memories – Keystone meeting: State of the Brain, Keystone, CO - 2018
- **Shrestha, P.**, Ayata P, Gastone A, Vidal PMH, Heintz N, Klann E. Disrupting memory consolidation by targeting protein synthesis with an inducible pharmacogenetic strategy – Frontiers in Memory Research, La Pietra, Florence, Italy - 2016
- **Shrestha, P.**, Ayata P, Heintz N, Klann E. Inducible pharmacogenetic inhibition of protein synthesis in lateral amygdala. Gordon Research Conference on Amygdala in Health & Disease, Stonehill college, Easton, MA - 2015
- **Shrestha, P.**, Heintz N. Cortical deletion of *Wfs1* precipitates stress induced depression. Cell Symposia – The Networked Brain - 2013
- **Shrestha, P.**, Rimberg J, Schmidt EF, Gong S, Heintz N. Comparative translational profiling for genetic cohorts of pyramidal cell types in murine frontal cerebral cortex. EMBL Symposium: Structure & Function of Neural Circuits, Heidelberg - 2010.
- **Shrestha, P.**, Schmidt EF, Skabardonis G, Meyers E, Gong S, Heintz N. Comparative translational profiling for genetic cohorts of pyramidal cells types in murine frontal cerebral cortex. Society for Neuroscience meeting, Chicago - 2009
- **Shrestha, P.**, Gong S, Heintz N. Molecular profile of functional cohort of projection neurons in the mouse frontal cortex. Society for Neuroscience Meeting, San Diego - 2007

PEER REVIEW SERVICE (JOURNALS)

Ad hoc: Neuron, Journal of Neuroscience, Neuropsychopharmacology, Molecular Psychiatry, Frontiers in Molecular Neuroscience

With previous supervisors: Nature, Neuron, Nature Neuroscience, PNAS

EDITORIAL BOARD

Reviewing Editor: Methods & Model Organisms. Frontiers in Molecular Neuroscience (2021 – present)

SCIENCE INTERVIEWS & OUTREACH

- Short-lived molecule supports long-term memory. The Scientist. June 6th, 2023
- Who gets credit in Academia? Horizons in Molecular Biology panel discussion. September 13th, 2022
- How to land a tenure-track job. Nepali Academics in America annual conference. April 15th, 2022
- Safalta ani sangharsa (Success and struggle). Hamro Patro Podcast. February 17th, 2022
- Gained in Translation. Top of the NOGN Podcast. June 20th, 2020.
- Stress & Depression. The Naked Scientists Podcast. October 2nd, 2015.
- Recovering Lost Memories. BBC Inside Science. March 17th, 2016.
- Selected as a high-profile neuroscientist on Twitter. Huffington Post, June 11th, 2012

SELECT ATTENDED SCIENTIFIC MEETINGS

Society for Neuroscience Annual Meeting, Washington DC – November, 2023

Molecular and Cellular Cognition Society Annual Meeting, Washington DC – November, 2023

The International Conference on Learning & Memory, Surf City, CA – April 2023

From Nucleotides to Neurons: A Symposium in Honor of the Centenary of Rosalind Franklin. The Rockefeller University, NY – December, 2022
 Society for Neuroscience Annual Meeting, virtual – October, 2021
 Memory: It's about time (UC Irvine; virtual) – May, 2021
 Innovators in Neuroscience: From Molecules to Mind (Mt Sinai; virtual) – May, 2021
 American College of Neuropsychopharmacology Annual Meeting (virtual) – December, 2020
 Molecular & Cellular Cognition Society Annual Meeting (virtual) – October, 2020
 EMBO Workshop on Molecular neuroscience: from genes to circuits in health & disease – Bangalore, India – February, 2019
 Society for Neuroscience Annual Meeting, San Diego, CA – November, 2018
 Molecular & Cellular Cognition Society Annual Meeting, Washington DC – November, 2018
 Keystone meeting - State of the Brain: Genetic dissection of brain circuits & behavior in health & disease, Keystone, CO – January, 2018
 Molecular & Cellular Cognition Society Annual Meeting, San Diego, CA – November, 2016
 Frontiers in Memory Research, La Pietra, Florence, Italy – June, 2016
 Molecular & Cellular Cognition Society Annual Meeting, Chicago, IL – October, 2015
 Society for Neuroscience Annual Meeting, Chicago, IL – October, 2015
 Gordon Research Conference on Amygdala in Health & Disease, MA – August, 2015

ATTENDED WORKSHOPS

Miniscope pre-SfN Workshop, Washington DC – November 2017
 Junior Scientist Workshop in Neuronal Cell Biology, Janelia Farm – May 2017

TEACHING EXPERIENCE

Mentoring & Supervising:

- Matthew Dickinson, PhD student in Neuroscience, Stony Brook University – February 2023 – present
- Saheed Lawal, PhD student in Neuroscience, Stony Brook University – June 2023- present
- Olivia Tabaka, MS student in Neuroscience, Stony Brook University – August 2022 – present
- Aayush Shah, MS student in Computer Science, Stony Brook University, September 2023 - present
- Suk-Yin Tan, BS student, Stony Brook University – April 2023 – present
- Angelica Aday, BS student, Stony Brook University – February 2023 – present
- Courtney Ma, BS student, Stony Brook University – September 2023 - present

- Lauren Senia, MS student, Stony Brook University – August 2022 – August 2023
- Theresa Lamia, BS student, Stony Brook University – January 2023 – December 2023
- Stephanie Chu, BS student, Stony Brook University – March 2021 – June 2023
- Riley Maendel, BS student, Stony Brook University – August 2022 – December 2022
- Emma Craig, BS student, Hanson Internship Endowment fund awardee, Lafayette College – May 2022 – August 2022
- Michelle Surdyn, MS student, Biophysics & Physiology, Stony Brook University – February 2022 – December 2023
- Krishay Matneja, HS student, Herricks High School – July 2022 – August 2022
- Keith Yeung, BS student, Chhabra-URECA scholar, Stony Brook University – April 2022 – August 2023
- Karen San Agustin Ruiz, BS student, Dean's Undergraduate Research Fellowship (DURF), BP-ENDURE program, Max & Cecil Chesin Research Scholar, Goldwater Fellow, NYU: November 2018 – 2021; *Currently PhD student at Harvard University Program in Neuroscience*
- Houda Khaled, PhD student, PhD rotation: June 2020 – December 2020

- Mrinalini Singh, BS/MS student, NYU Tandon School of Engineering: February 2020 – December 2020
- Maya Hopkins, PhD student, PhD rotation: January 2020 – June 2020
- Alicia Nnenna Chima, BS student, BP-ENDURE program: September 2019 – May 2020; *Currently PhD student in Neuroscience at Columbia University*
- Rudi T D'Hooge, Faculty, KU Leuven, Sabbatical: September 2017 – January 2018
- Vinayak Rayannavar, PhD student, PhD Rotation: January 2015- April 2015
- Pedro Manuel Herrero Vidal, PhD student, PhD Rotation: September 2017 – January 2018; *Currently PhD graduate from NYU Program in Neuroscience.*
- WenXi Zhou, PhD student, PhD rotation: September 2017 – January 2018
- Alex Chong, BS student, Dean's Undergraduate Research Fellowship (DURF): May 2017 – May 2018; *Currently MD student in Rutgers University School of Medicine.*
- Laura McCulloch, MD-PhD student, PhD Rotation: August 2015
- Alexandra Gastone, BS student, Dean's Undergraduate Research Fellowship (DURF) & Independent Study: May 2015 – May 2016
- Ellery Jones, BS student, Harvard University; NYU Summer Undergraduate Research Program (SURP) Fellowship: May 2016 – August 2016
- Nicolai Pena, BS student, University of Arizona; NYU Summer Undergraduate Research Program (SURP)/ Simons Foundation Autism Research Initiative (SFARI) Fellowship: May 2018 – August 2018. *Currently PhD student in Program in Neuroscience at Harvard University*

Supervised following students' theses

- Lauren Senia, MS student in PiN, Stony Brook University.
MS thesis: August 2022 – August 2023
Neural mechanisms underlying context-dependence of threat extinction and reinstatement
- Adam Zerihoun, MS student in Biology, NYU.
MS thesis: May 2018 – May 2019
Role of cap-dependent protein synthesis in mPFC neurons in systems consolidation of long-term memory
- Chien-Yu Juan, MS student in Biology, NYU.
MS thesis: August 2018 – May 2019
Behavior characterization & rescue of mutant mice with reduced Tsc2 gene dosage in Oxytocin receptor expressing neurons
- Zhe Shan, MS student, MS student in Biology, NYU.
MS thesis: March 2017 – May 2018
Characterization of mTORC1 signaling in the amygdala during discriminative fear memory consolidation
- Pedro Herrero-Vidal, La Caixa Fellow/ MS student in Biology, NYU.
MS thesis: September 2015 – May 2017
Activation of mammalian target of rapamycin (mTOR) signaling in Parvalbumin positive interneurons of the amygdala after fear conditioning
- Karen San Agustin Ruizl, BS student in Neuroscience, Max & Cecil Chesin Research Scholar, Goldwater Fellow, NYU.
Senior Honors thesis: September 2020 – June 2021
The role of eukaryotic initiation factor 2 alpha phosphorylation in cognitive and affective processes

Thesis committee member

- Kehinde Cole, PhD student in Psychology, Stony Brook University
- Ariel Nieves, PhD student in Program in Neuroscience (PiN), Stony Brook University
- Tamor Khan, PhD student in Program in Neuroscience (PiN), Stony Brook University

Teaching:

Graduate courses -

Renaissance School of Medicine:

Integrative Pathophysiology: Mind Brain & Behavior. Auditory System, Vestibular System & Limbic System – Emotion and Memory – 2022 - current

Stony Brook School of Dental Medicine:

Nervous system. Limbic System – Emotion and Memory – 2022 - current

Nervous system. Limbic System – Emotion and Memory, Auditory System and Vestibular System – 2023 - current

Program in Neuroscience:

Advanced Neuroscience BNB565: Local translation & axon pathfinding – 2021 - current

Systems Neuroscience (BNB562): Limbic System – 2022 - current

Introduction to Molecular Neuroscience (NEU522) 1. Protein synthesis regulation, 2. Tools and Strategies to probe protein synthesis in health and disease, 3. Memory Consolidation – I & II. – 2022 - current

Undergraduate courses –

Research in Neurobiology & Physiology (BIO486) –2022 - current

Teaching Assistant & Technical Writing Assistant. Biology Department, Bates College, ME – 2002-2003

Assisted the Biology faculty in teaching laboratory techniques to the students for core Biology courses.

Instructed students about the scientific format of writing project reports & evaluated their reports for critical peer review.

SHRESTHA LAB MEMBERS

Sunghoon Kim, Ph.D.: Postdoctoral Associate, September 2022 - present

Andrew Gallagher, B.S.: Research Support Specialist, July 2022 – present

Matthew Dickinson, B.S.: Ph.D. rotation student, February 2023 – present

Saheed Lawal, B.S.: Ph.D. rotation student, August 2022 – December 2022

Olivia Tabaka, B.S.: M.S. student, August 2022 – present

Aayush Shah, B.S.: M.S. student, August 2023 – present

Suk-Yin Tan, BS student, Stony Brook University – April 2023 – present

Angelica Aday, BS student, Stony Brook University – February 2023 – present

Courtney Ma, BS student, Stony Brook University – September 2023 - present

Alumni:

Lauren Senia, B.S.: M.S. student, August 2022 – present

Michelle Surdyn, B.S.: M.S. student, February 2022 – December 2022

Sayali Ranade, Ph.D.: Postdoctoral Associate, September 2021 – September 2022

Riley Maendel: Undergraduate researcher, August 2022 – December 2022

Stephanie Chu: Undergraduate researcher, March 2021 – present

Keith Yeung: Undergraduate researcher, April 2022 - present

COMMUNITY SERVICE & LEADERSHIP

- Faculty Search Committee for Addiction & Motivation, Stony Brook University Department of Neurobiology & Behavior – 2023-2024
 - Faculty Search Committee for Computational Neuroscience, Stony Brook University Department of Neurobiology & Behavior – 2022-2023
 - Member, Selection Committee – Service/ Outreach Award for SBU PiN graduate students. 2022, 2023
 - Early Career Reviewer, DNDDS study section, NIH Center for Scientific Review. 2022
 - Member, Turner Fellowship Advisory Committee, Stony Brook University – 2022-2023
 - Panelist, Leon Levy Symposium comprising new PIs, NYU (virtual) - 2021
 - Panelist, CoNNexINS panel showcasing former & current NYU postdocs, NYU (virtual)- 2021
 - Faculty Search Committee for Motor Systems, Stony Brook University Department of Neurobiology & Behavior – 2021-2022
 - Director, Behavior Core, Stony Brook University Department of Neurobiology & Behavior – 2021 – present
 - Session chair, Molecular & Cellular Cognition Society Annual Meeting - 2018
 - Founding Executive Committee Member. International Nepali Biomedical Society (INBS) – 2006 - present
 - Program Director, Help Nepal Network (HeNN) USA. www.helpnepal.net - 2005 - present
 - Editorial Team & Writer. Natural Selections, A Newsletter of the Rockefeller University, New York. <http://selections.rockefeller.edu> - 2007 – 2008
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MEMBERSHIP

- Full Member. Sigma Xi Scientific Research Society. 2021 - present
- Member. Women in Learning. 2019 - present
- Member. Pavlovian Society. 2017 – present
- Member. Society for Behavior Neuroendocrinology. 2021 - present
- Member. Society for Neuroscience. 2005 - present
- Member. New York Academy of Sciences. 2005 – present
- Inductee, Phi Beta Kappa, Gamma of Maine at Bates College. 2003
- Inductee, Sigma Xi Scientific Research Society. 2003