Catherine Jensen Peña, PhD

EDUCATION

PhD	2012	Columbia University, Neurobiology & Behavior
MA, MPhil	2009	Columbia University, Neurobiology & Behavior
BA	2006	University of Pennsylvania, Biological Basis of Behavior major

POSITIONS & TRAINING

***Assistant Professor*, Princeton Neuroscience Institute** 2019-*present*
Affiliate Faculty, Graduate program in Quantitative and Computational Biology 2021-*present*
Affiliate Faculty, Center for Health and Wellbeing *2022-present*
Princeton University, Princeton, NJ

Postdoctoral Fellow, Neuroscience Department 2013-2018
Icahn School of Medicine at Mount Sinai, New York, NY
Laboratory of Dr. Eric Nestler

Adjunct Assistant Professor, Psychology Department 2016-2017
Columbia University, New York, NY

Adjunct Assistant Professor, Biology Department 2013-2014
Queens College CUNY, Queens, NY

Doctoral Student, Neurobiology & Behavior Program 2007-2012
Columbia University, New York, NY
Laboratory of Dr. Frances Champagne

Intramural Research Training Award 2006-2007
National Institute of Mental Health, Bethesda, MD
Laboratory of Clinical Science under Dr. Dennis Murphy

Senior Honors Thesis, Biological Basis of Behavior 2005-2006
University of Pennsylvania, Philadelphia, PA
Laboratory of Dr. Tracy Bale

PUBLICATIONS

tinyurl.com/CJPpapers

Preprints and Manuscripts Under Review

1. Bryant S[#], Balouek JA[#], Geiger LT, Barker DJ*, **Peña CJ***. Pain as a Trigger for Epigenetic Modifications in Limbic Circuitry. *Under Review* and *bioRxiv* (2022) https://doi.org/10.1101/2022.03.29.486268.
   * co-corresponding authors
2. Walker DM, Zhou X, Ramakrishman A, Cates HM, Cunningham AM, **Peña CJ**, Bagot RC, Issler O, van der Zee Y, Lipschultz AP, Godino A, Browne AJ, Hodes GE, Parise EM, Torres-Berrio A, Kennedy PJ, Shen L, Zhang B, Nestler EJ. Adolescent Social Isolation Reprograms the Medial Amygdala: Transcriptome and Sex Differences in Reward. *Under Review* and *bioRxiv* 955187 (2020) https://doi.org/10.1101/2020.02.18.955187

Peer-Reviewed Articles

3. Pryce KD, Ramakrishnan A, Kronnman H, Nicolais A, Polizu C, Ruiz A, Serafini R, Gaspari S, **Peña CJ**, Torres-Berrio A, Mitsi V, Darpe M, Shen L, Nestler EJ, Zachariou V. A novel HDAC1/2 inhibitor alleviates physical and emotional symptoms associated with spontaneous oxycodone withdrawal in neuropathic pain mice. *FASEB* (2022)
4. Sidamon-Eristoff AE, Cohodes EM, Gee DG, **Peña CJ**. Trauma Exposure and Mental Health Outcomes Among Central American and Mexican Children Held in Immigration Detention at the United States-Mexico Border. *Developmental Psychobiology* (2021)
5. Kazim SF, Sharma A, Saroja SR, Seo JH, Larson CS, Ramakrishnan A, Wang M, Blitzer RD, Shen L, **Peña CJ**, Crary JF, Shimoda LA, Zhang B, Nestler EJ, Pereira AC. Chronic Intermittent Hypoxia Enhances Pathological Tau Seeding, Propagation, and Accumulation and Exacerbates Alzheimer-like Memory and Synaptic Plasticity Deficits and Molecular Signatures. *Biological Psychiatry* (2021) PMC34130857.
6. Cunningham AM, Walker DM, Ramakrishnan A, Doyle MA, Bagot RC, Cates HM, **Peña CJ**, Issler O, Lardner C, Browne C, Russo SJ, She L, Nestler EJ. Sperm transcriptional state associated with paternal transmission of stress phenotypes. *Journal of Neuroscience* (2021)

7. Kronman H, Torres-Berrio A, Sidoli S, Issler O, Godino A, Ramakrishnan A, Mews P, Lardner CK, Parise EM, Walker DM, van der Zee Y, Browne CJ, Boyce BF, Neve R, Garcia BA, Shen L, **Peña CJ***, Nestler EJ*. H3K79me2 dynamics in medium spiny neurons mediate long-term behavioral and cell type-specific molecular effects of early life stress. *Nature Neuroscience* (2021). * co-corresponding authors
8. Van der Zee YY, Lardner CK, Parise EM, Mews P, Ramakrishnan A, Patel V, Teague CD, Walker DM, Salery M, Browne CJ, Labonte B, Parise LF, Kronman H, **Peña CJ**, Torres-Berrio A, Duffy JE, de Nijs L, Eijssen LMT, Shen L, Rutten B, Issler O, Nestler EJ. Sex-specific role for SLIT1 in regulating stress susceptibility. *Biological Psychiatry* (2021)
9. Hamilton PJ, Chen EY, Tolstikov V, **Peña CJ**, Picone JA, Shah P, Panagopoulos K, Strat AN, Walker DM, Lorsch ZS, Robinson HL, Mervosh NL, Kiraly DD, Sarangarajan R, Narain NR, Kiebish MA, Nestler EJ. Chronic stress and antidepressant treatment alter purine metabolism and beta oxidation within mouse brain and serum. *Scientific Reports* (2020) PMC7582177.
10. Issler O, van der Zee Y, Ramakrishnan A, Wang J, Tan C, Loh YE, Purushothaman I, Walker DM, Lorsch ZS, Hamilton PJ, **Peña CJ**, Flaherty E, Hartley BJ, Torres-Berrío A, Parise EM, Kronman H, Duffy JE, Estill MS, Calipari ES, Labonté B, Neve RL, Tamminga CA, Brennand KJ, Dong Y, Shen L, Nestler EJ. Sex-Specific Role for the Long Non-coding RNA LINC00473 in Depression. *Neuron* (2020) PMID: 32304628
11. **Peña CJ***, Smith M, Ramakrishnan A, Cates HM, Bagot RC, Kronman HG, Patel B, Chang AB[#], Purushothaman I, Dudley JT, Morishita H, Shen L, Nestler EJ. Early life stress alters transcriptomic patterning across reward circuitry in male and female mice. *bioRxiv* 624353 (2019). doi:10.1101/624353; *Nature Communications* (2019). PMC6841985 [#]Princeton undergraduate; *corresponding author
12. Nasca C, Menard C, Hode G, Bigio B, **Peña C**, Lorsch Z, Zelli D, Ferris A, Kana V, Purushothaman I, Dobbin J, Nassim M, DeAngelis P, Merad M, Ragson N, Meaney M, Nestler E, McEwen BS, Russo SJ. Multidimensional Predictors of Susceptibility and Resilience to Social Defeat Stress. *Biological Psychiatry* (2019). doi.org/10.1016/j.biopsych.2019.06.030
13. **Peña CJ**, Nestler EJ, Bagot RC. Environmental programming of susceptibility and resilience to stress in adulthood. *Frontiers in Behavioral Neuroscience* (2019). PMC6405694
14. Cates, HM Bagot RC, Heller EA, Purushothaman I, Lardner CK, Walker DM, **Peña CJ**, Neve RL, Shen L, Nestler EJ. A novel role for E2F3b in regulating cocaine action in the prefrontal cortex. *Neuropsychopharmacology* (2018). PMID: 30552390.
15. Kaufman J, Wymbs F, Montavalo-Ortiz JL, Orr C, Albaugh MD, Althoff R, O'Laughlin K, Holbrook H, Garavan H, Kearney C, Yang BZ, Zhao H, **Peña C**, Nestler EJ, Lee RS, Mostofsky S, Gelernter J, Hudziak J. Methylation in OTX2 and related genes, maltreatment, and depression in children. *Neuropsychopharmacology* (2018). PMC6135753.
16. Cates HM, Heller EA, Lardner CK, Purushothaman I, **Peña CJ**, Walker DM, Cahill M, Neve RL, Shen L, Bagot RC, Nestler EJ. E2F3a in nucleus accumbens affects cocaine action via transcription and alternative splicing. *Biological Psychiatry* (2018). PMC5988910.
17. **Peña CJ**, Kronman HG, Walker DM, Cates HM, Bagot RC, Purushothaman I, Issler O, Loh YE, Leong T, Kiraly DD, Goodman E, Neve R, Shen L, Nestler EJ. Early life stress confers lifelong stress susceptibility in mice via ventral tegmental area OTX2. *Science* (2017). PMC5539403.
18. Feng J, **Peña CJ**, Purushothaman I, Engmann O, Walker D, Brown AN, Issler O, Doyle M, Harrigan E, Mouzon E, Vialou V, Shen L, Dawlaty MM Janenisch R, Nestler EJ. Tet1 in Nucleus Accumbens Opposes Depression- and Anxiety-Like Behaviors. *Neuropsychopharmacology* (2017) PMID: 28074830.
19. Lepack AE, Bagot RC, **Peña CJ**, Loh YE, Farrelly LA, Lu Y, Powell SK, Lorsch Z, Issler O, Cates HM, Tamminga CA, Molina H, Shen L, Nestler EJ, Allis CD, Maze I. Aberrant H3.3 dynamics in NAc promote vulnerability to depressive-like behavior. *Proceedings of the National Academy of Sciences* (2016). PMC5098673.
20. Kiraly DD, Walker DM, Calipari ES, LaBonté B, Issler O, **Peña CJ**, Ribeiro EA, Russo SJ, Nestler EJ. Alterations of the Host Microbiome Affect Behavioral Responses to Cocaine. *Scientific Reports* (2016). PMCID: PMC5067576.
21. Bagot RC, Cates HM, Purushothaman I, Vialou V, Heller EA, Yieh L, **Peña CJ**, LaBonté B, Shen L, Wittenberg GM, Nestler EJ. Ketamine and imipramine reverse transcriptional signatures of susceptibility and induce resilience-specific gene expression profiles. *Biological Psychiatry* (2016). PMC5164982.
22. Bagot RC, Cates HM, Purushothaman I, Lorsch Z, Wang J, Huang X, Schluter OM, Maze I, Walker DM, **Peña CJ**, Heller EA, Issler O, Wang M, Song W-m, Stein JL, Liu XC, Doyle MA, Neve R, Geschwind D, Dong Y, Shen L, Zhang B, Nestler EJ. Circuit-wide transcriptional profiling reveals specific gene co-expression networks regulating depression susceptibility. *Neuron* (2016). PMC4896746.
23. Calipari ES, Bagot RC, Purushothaman I, Davidson TJ, Yorgason JT, **Peña CJ**, Walker DM, Pirpinias ST, Guise KG, Ramakrishnan C, Deisseroth K, Nestler EJ. In vivo imaging identifies temporal signature of D1 and D2 medium spiny neurons in cocaine reward. *Proceedings of the National Academy of Sciences* (2016). PMID: 26831103.
24. Heller EA, Hamilton P, Burek D, Lombroso S, **Peña CJ**, Neve R, Nestler EJ. Targeted epigenetic remodeling of the Cdk5 gene in nucleus accumbens regulates cocaine- and stress-evoked behavior. *Journal of Neuroscience* (2016). PMID: 27122028.

25. Damez-Werno D, Sun H, Scobie KN, Shao N, Rabkin J, Dias C, Calipari ES, Maze I, **Peña CJ**, Walker DM, Cahill M, Chandra R, Gancarz A, Mouzon E, Landry JA, Cates H, Lobo MK, Dietz, D, Guccione E, Turecki G, Defilippi P, Neve R, Hurd YL, Shen L, Nestler EJ. Histone Arginine Methylation in Cocaine Action in the Nucleus Accumbens. *PNAS* (2016), PMID: 27506785.
26. Murgatroyd CA, **Peña CJ**, Podda G, Nestler EJ, Nephew BC. Early life social stress changes in depression and anxiety associated neural pathways which are correlated with impaired maternal care. *Neuropeptides* (2015). PMC4537387.
27. Bagot RC, Parise E*, **Peña CJ***, Zhang H, Maze I, Chaudhury D, Persaud B, Cachope R, Bolaños-Guzman C, Cheer J, Deisseroth K, Han MH, Nestler EJ. Ventral hippocampal afferents to the nucleus accumbens regulate susceptibility to depression-like behavior. *Nature Communications* (2015). PMC4430111.
28. Heller EA, Cates HM, **Peña CJ**, Sun H, Shao N, Feng J, Golden SA, Herman JP, Walsh JJ, Mazei-Robison M, Ferguson D, Knight S, Gerber MA, Nievera C, Han M, Russo SJ, Tamminga CS, Neve RL, Shen L, Zhang H, Zhang F, Nestler EJ. Epigenetic reprogramming of single loci for the study of addiction and depression. *Nature Neuroscience* (2014). PMC4241193.
29. Koo JW, Mazei-Robison M, LaPlant Q, Egervari G, Braunscheidel K, Adank D, Ferguson D, Feng J, Sun H, Scobie K, Damez-Werno D, Riberio EA, **Peña CJ**, Walker DM, Bagot RC, Cahill M, Anderson SA, Labonte B, Hodes G, Browne H, Chadwick B, Robison AJ, Vialou V, Dias C, Lorsch Z, Mouzon E, Lobo MK, Dietz D, Russo S, Neve R, Hurd Y, Nestler EJ. Epigenetic basis of opiate suppression of Bdnf gene expression in the ventral tegmental area. *Nature Neuroscience* (2015). PMC4340719.
30. **Peña CJ**, Champagne FA. Neonatal over-expression of estrogen receptor α reverses the effects of low maternal care in female offspring. *Developmental Neurobiology* (2014). PMC4284154.
31. Dias C*, Feng J*, Sun H, Mazei-Robison M, Shao N, Damez-Werno D, Scobie K, Liu X, Bagot RC, Kennedy P, Vialou V, Ferguson D, Mouzon E, Ghose S, Tamminga C, Neve R, Shen L, Labonte B, Ribeiro EA, **Peña C**, Calipari ES, Koo JW, Nestler EJ. β-catenin mediates behavioral resilience through Dicer1/miRNA regulation. *Nature* (2014). PMC4257892.
32. Koo JW, Lobo MK Chaudhury D, Labonte B, Friedman A, Heller E, **Peña C**, Han M-H, Nestler EJ. Loss of BDNF signaling in D1R expressing NAc neurons enhances morphine reward by reducing GABA inhibition. *Neuropsychopharmacology* (2014). PMC4207344.
33. Sarkar A, Chachra P, Kennedy P, **Peña CJ**, Desouza LA, Nestler EJ, Vaidya VA. Hippocampal HDAC4 contributes to postnatal fluoxetine-evoked depression-like behavior. *Neuropsychopharmacology* (2014), PMC4104341.
34. **Peña CJ**, Neugut YD, Calarco C, Champagne FA. Effects of maternal care on the development of offspring midbrain dopamine pathways and reward-directed behavior. *European Journal of Neuroscience* (2014). PMC24446918.
35. **Peña CJ**, Neugut YD, Champagne FA. Developmental timing of the effects of maternal care on gene expression and epigenetic regulation of hormone receptor levels in female rats. *Endocrinology* (2013). PMC3800762.
36. **Jensen Peña C,** Champagne FA. Implications of temporal variation in maternal care for the prediction of neurobiological and behavioral outcomes in offspring. *Behavioral Neuroscience* (2013). PMC3947603.
37. **Jensen Peña C**, Monk C, Champagne FA. Epigenetic effects of prenatal stress on 11β-hydroxysteroid dehydrogenase-2 in the placenta and fetal brain. *PLoS One* (2012). PMC3383683.
38. Curley JP, **Jensen CL**, Franks B, Champagne FA. Variation in maternal and anxiety-like behavior associated with discrete patterns of oxytocin and vasopressin 1a receptor density in the lateral septum. *Hormones and Behavior* (2012). PMCID: PMC3312967.
39. Moya PR, Fox MA, **Jensen CL**, Laporte JL, French HT, Wendland JR, Murphy DL. Altered 5-HT2C receptor agonist-induced responses and 5-HT2C receptor RNA editing in the amygdala of serotonin transporter knockout mice. *BMC Pharmacology*. PMC3080299.
40. Pankevich DE, Teegarden SL, Hedin AD, **Jensen CL**, Bale TL. Caloric restriction experience reprograms stress and orexigenic pathways and promotes binge eating. *Journal of Neuroscience* (2010). PMC3034235.
41. Fox MA, **Jensen CL**, Murphy DL. Tramadol and another atypical opioid meperidine have exaggerated serotonin syndrome behavioural effects, but decreased analgesic effects, in genetically deficient serotonin transporter (SERT) mice. *International Journal of Neuropsychopharmacology* (2009). PMC2750095.
42. Fox MA, **Jensen CL**, French HT, Stein AR, Huang SJ, Tolliver TJ, Murphy DL. Neurochemical, behavioral and physiological effects of pharmacologically enhanced serotonin levels in serotonin transporter (SERT)-deficient mice. *Psychopharmacology* (2008). PMC2584159.
43. Wendland JR, Moya PR, Kruse MR, Ren-Patterson RF, **Jensen CL**, Cromer KR, Murphy DL. A novel, putative gain-of-function haplotype at SLC6A4 associates with obsessive-compulsive disorder. *Human Molecular Genetics* (2008). PMID: 18055562.
44. Fox MA, **Jensen CL**, Gallagher PS, Murphy DL. Receptor mediation of exaggerated responses to serotonin-enhancing drugs in serotonin transporter (SERT)-deficient mice. *Neuropharmacology* (2007). PMID: 17765930.

Review Articles and Chapters

45. Hanson JL, Williams AV, Bangasser DA, **Peña CJ**. Impact of Early Life Stress on Reward Circuit Function and Regulation. *Frontiers in Psychiatry* (2021)
46. Parel ST & **Peña CJ**. Genome-wide signatures of early life stress: influence of sex. *Biological Psychiatry* (2021)
47. **Peña CJ** & Nestler. Progress in Epigenetics of Depression (*chapter*). *Prog Mol Biol Transl Sci* (2018). PMC6047749
48. **Peña CJ**. D1 and D2 Medium Spiny Neuron Contributions to Depression. *Biological Psychiatry* (2017). PMID: 28317546
49. Nestler EJ, **Peña CJ**, Kundakovic M, Mitchell A, Akbarian S. Epigenetic Basis of Mental Illness. *Neuroscientist* (2016). PMID: 26450593
50. **Peña CJ***, Bagot RC*, Labonté B*, Nestler EJ. Epigenetic Signaling in Psychiatric Disorders. *Journal of Molecular Biology* (2014). PMC4177298
51. Bagot RC, Labonté B, **Peña CJ**, Nestler EJ. Epigenetic signaling in psychiatric disorders: stress and depression. *Dialogues Clinical Neuroscience* (2014). PMID: 25364280
52. **Jensen Peña CL**, Champagne FA. Epigenetic and Neurodevelopmental Perspectives on Variation in Parenting Behavior. *Parenting: Science and Practice* (2012). PMC3498455
53. Curley JP, **Jensen CL**, Mashoodh R, Champagne FA. Social influences on neurobiology and behavior: epigenetic effects during development. *Psychoneuroendocrinology* (2011). PMID: 20650569
54. Fagiolini M, **Jensen CL**, Champagne FA. Epigenetic influences on brain development and plasticity. *Current Opinion in Neurobiology* (2009). PMC2745597

SUPPORT

2022-2025	F31 *recommended for funding* (Sponsor; *award to PhD student R.Rashford*) "Promoting Resilience to Early Life Stress through Epigenetic Editing"
2022-2027	R01MH129643 NIMH Biobehavioral Research Awards for Innovative New Scientists (BRAINS) (PI) "Epigenetic priming of response to future stressors"
2021-2023	PNI Research Innovator Award (PI) "Single-cell sequencing of experience-activated cells"
2020-2021	NARSAD Young Investigator Award (PI) "Mapping transcriptomic patterns of early life stress and antidepressant treatment response"
2017-2022	K99, R00 MH115096, Pathway to Independence Award (PI) "Epigenetic and cellular markers of stress sensitization by early life stress in mice"
2020	New Jersey Alliance for Clinical and Translational Science, Pilot Proposal (Co-I)

HONORS & AWARDS

2022	Princeton Gratitude Gala invitation (nominated by undergraduates to honor faculty who have had a profound impact in shaping student experiences)
2021 -	American College of Neuropsychopharmacology (ACNP) Associate Membership
2021	**Frank Beach Early Career Award**, Society for Behavioral Neuroscience
2019	MCCS Scholar, Molecular and Cellular Cognition Society
2018 - 2021	**Next Generation Leaders Council**, Allen Brain Institute
2018	Poster Award, Stress Neurobiology Meeting 2018, Banff, Alberta, Canada
2018	Outstanding Postdoctoral Fellow, Friedman Brain Institute, Icahn School of Medicine at Mount Sinai
2017	**Robin Chemers Neustein Postdoctoral Fellowship**, Icahn School of Medicine at Mount Sinai
2017	Travel Award, American College of Neuropsychopharmacology (ACNP**)**
2016	New Investigator Award, Society for Behavioral Neuroendocrinology
2015	Travel Award & Select Presentation, International Symposium for Developmental Psychobiology
2013	Postdoctoral Travel Award, Greater New York City Chapter Society for Neuroscience
2013	Frontline Scholar, TEDMED
2012	Travel Award, Society for Behavioral Neuroendocrinology
2011	**Next Generation Award**, Society for Neuroscience
2008, 2009	Graduate Research Fellowship Honorable Mention, National Science Foundation
2005	Travel Award, Wisconsin Symposium on Emotion

SELECT SEMINARS & INVITED TALKS

2022	Bordeaux Neurocampus symposium, invited ***plenary lecture***
2022	International Behavioral Neuroscience Society (IBNS): selected seminar ***Co-Chair*** and speaker
2022	Dopamine (Montreal, Canada): selected symposium speaker
2022	Linköping University, Sweden: Neurobiology Network: invited speaker
2022	University of Alabama Birmingham: Department of Neurobiology Seminar Series: student-invited speaker

2022 University of Pennsylvania Center for Neuroscience & Society: invited public speaker
2022 McGill-Douglas – Max Planck Institute of Psychiatry, International Collaborative Initiative in Adversity and Mental Health: invited speaker
2021 American College of Neuropsychopharmacology (ACNP; San Juan, Puerto Rico): selected panel speaker
2021 Society for Neuroscience (Chicago, IL): Minisymposium: ***Co-Chair*** and speaker
2021 University of Ottawa Brain and Mind Research Institute: Invited Brain Health Research Day ***Keynote Speaker***
2021 Columbia University: Columbia Neuroscience Seminars invited speaker
2021 Society of Biological Psychiatry: selected symposium speaker
2021 UC Irvine, Conte Center: invited speaker
2021 Rutgers University, Department of Animal Sciences: invited speaker
2021 Anxiety and Depression Society of America (ADAA): selected symposium speaker
2020 Penn State, Neuroscience: invited speaker
2020 University of Iowa, Neuroscience Institute: invited speaker, *postponed due to COVID19*
2019 Society for Behavioral Neuroendocrinology (Bloomington, IN): selected symposium speaker
2019 Society of Biological Psychiatry (Chicago, IL): selected symposium speaker
2018 Allen Institute for Brain Science (Seattle, WA): Next Generation Leaders Showcase
2018 Molecular and Cellular Cognition Society (San Diego, CA): invited speaker
2018 Columbia: Neuroscience Department Retreat invited speaker
2018 Society of Biological Psychiatry (New York, NY): selected symposium speaker
2018 UCLA, Department of Psychology
2017 American College of Neuropsychopharmacology (ACNP; Palm Springs, CA): selected panel speaker
2017 Penn, Department of Psychology
2017 Albert Einstein, Department of Neuroscience
2017 Rutgers University, Brain Health Institute
2017 Weill Cornell: Sackler Seminar Series invited speaker
2017 University of Alabama Birmingham, Department of Psychiatry
2016 Yale, Molecular Psychiatry (BSTP): invited seminar
2016 American College of Neuropsychopharmacology (ACNP; Hollywood, FL): selected panel speaker
2016 Society for Neuroscience (San Diego, CA), Nanosymposium ***Chair***: Early Life Stress
2016 Society for Behavioral Neuroendocrinology (Montreal, Canada): New Investigator Symposium, *Winner of New Investigator Award*
2016 University of California Davis, Psychology Department: Biological Brown Bag invited seminar
2016 Mount Sinai, Friedman Brain Institute Retreat: selected speaker & *Winner of Best Oral Presentation Award*
2015 International Society for Developmental Psychobiology (San Sebastian, Spain): selected speaker
2015 Society for Neuroscience (Chicago, IL): Nanosymposium selected speaker: Early Life Stress
2015 Mount Sinai, Postdoc Symposium: selected speaker
2014 International Society for Developmental Psychobiology (Washington, D.C.): selected speaker
2011 Columbia Neuroscience Department Retreat: invited speaker
2011 Experimental Biology Annual Meeting (Washington, D.C.): selected speaker
2011 Columbia, Developmental Neuroscience Seminar

TEACHING & MENTORING

INSTRUCTOR

Princeton Neuroscience Institute

2020-present *Epigenetics in Neuroscience and Behavior* (NEU 430)
2020-present Graduate Bootcamp molecular neuroscience instructor
2019-present Guest lecturer in NEU501 graduate course
2019-present Guest lecturer in NEU385 undergraduate seminar

Previous

2016-2017 *Behavioral Epigenetics* (PSYC GU4498), Columbia University, Psychology Department
2013-2014 *Introductory Neurobiology*, (BIOL 373), Queens College CUNY, Biology Department
2009-2012 *Scientific Communication (*Summer Undergraduate Research Fellowship), Columbia University, Biology Department

TRAINEE MENTORSHIP

Princeton 2 postdoctoral fellows, 3 graduate students, 15 undergraduates, 4 summer interns
Postdocs and staff have earned: *CSHL Gene Expression course scholarship, SBN Welcome Initiative Award,*

Graduate students have earned: *NSF GRFP (1 award + 1 hon), F31, Stress Neurobiology 2022 Travel Award,*

Undergraduate students have earned: *First and middle author publications, Spirit of Princeton Award, Brinster Outstanding Neuroscience Senior Thesis Award, Fulbright Fellowship, OURSIP summer funding (X4), Neuroscience Newman/Biousse Award, Stanley Stein Outstanding Senior Thesis Prize (PLAS), Piglia Best Senior Thesis Prize (SPO), Neuroscience Shapiro Award, Neuroscience Lambert Award,*

Previous 1 MD-PhD student, 1 graduate student, 9 undergraduate/postbac students, 1 high school student

PROFESSIONAL SERVICE

UNIVERSITY COMMITTEES

2022-2026 University Research Board

DEPARTMENT COMMITTEES

2021 Faculty search committee
2020-present Climate & Inclusion Committee
2019-present Seminar Series Committee
2019-present Graduate Admissions Committee

GRANT PEER-REVIEW

2021-present NIH: Cellular and Molecular Biology of Complex Brain Disorders

JOURNAL REFEREE: 15+ journals including *Nature, Nature Communications, Biological Psychiatry, eLife, Journal of Neuroscience, Neuropsychopharmacology, Hormones and Behavior, Neurobiology of Stress,* etc

SOCIETY SERVICE

2022 Society for Neuroscience search committee for *Journal of Neuroscience* Editor in Chief
2020-2023 Public Education & Communication Committee (PECC), Society for Neuroscience
2017-2021 Professional Development Committee, Society for Behavioral Neuroendocrinology
2014-2015 Online Programs Advisory Group, Society for Neuroscience
2013-2015 Working Group on Advocacy, Society for Neuroscience
2011-2015 Trainee Advisory Committee, Society for Neuroscience

SCIENTIFIC ADVISORY BOARDS

2018-2021 Allen Institute for Brain Science: Next Generation Leaders Council

PUBLIC OUTREACH AND EDUCATION

INFORMAL EDUCATION AND EVENTS

2022 Princeton Brain Bee Judge, Princeton Neuroscience Network
2021- Science Day presenter, local schools
2013-2014 Brain Awareness Week Director, Mentoring in Neuroscience Discovery at Sinai (MiNDS) Program, ISMMS
2009-2012 President, Columbia Science Mentors, Mott Hall Middle School
2008-2012 President & Founding Board Member, Columbia University Neuroscience Outreach (CUNO)
Awarded Next Generation Award, SfN (2011)
2005 Workshop leader, Kids Judge Neuroscience, University of Pennsylvania

PUBLIC TALKS

2022 Center for Neuroscience & Society, “Promoting resilience in the brain after early life stress,” Philadelphia, PA
2018 Pregame Your Brain, “Your DNA as a Slinky” interactive game, New York, NY
2016 Pint of Science, “Epigenetics: The Nature of Nurture,” New York, NY

INTERVIEWS

2022 Interviewed for *Princeton Alumni* magazine article
2021 Podcast interview, Active Motif podcast
2021 Interviewed for *Forbes* article, “Here’s What Happens To The Brain Under Stress - From Childhood To Adulthood” link
2021 Interviewed for *The Scientist* article, “Early-Life Stress Exerts Long-Lasting Effects Via Epigenome” link