

Christos Suriano, PhD

Assistant Professor
Department of Biology
Montclair State University
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Positions

Assistant Professor of Biology Department of Biology Montclair State University Suriano Lab – <i>How do viruses and host immune responses disrupt brain structure, function and development?</i>	September 2022 - present Montclair, NJ
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Postdoctoral Training

Postdoctoral Researcher NJ Alliance for Clinical and Translational Science Postdoctoral Fellow Advisor - Lisa Boulanger, Ph.D. Princeton Neuroscience Institute & Department of Molecular Biology Princeton University <i>Effects of immune molecules and the antiviral response on neuronal homeostasis and circuit function</i>	May '18 – September 2022 September '21 – September 2022 Princeton, NJ
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Education

Doctor of Philosophy Neurobiology and Behavior Advisor - David Bodznick, Ph.D. Thesis Committee: David Bodznick, Ph.D.; Ann Burke, Ph.D.; John Kirn, Ph.D.; Gloster Aaron, Ph.D.; Joseph Coolon, Ph.D. Wesleyan University <i>Dissertation Title: Developmental evidence for the evolutionary relationship of cerebellum and cerebellum-like structures in an elasmobranch fish</i>	April 2018 Middletown, CT
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Bachelor of Science Major in Psychology with a focus in Clinical Psychology Minor in Cultural Anthropology Arizona State University	May 2011 Tempe, AZ
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Associate of Science Major in Biology Dutchess Community College	May 2009 Poughkeepsie, NY
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Peer-Reviewed and Preprint Publications

Suriano, Christos M., Jessica L. Verpeut, Neerav Kumar, Jie Ma, Caroline Jung, and Lisa M. Boulanger. "Adeno-Associated Virus (AAV) Reduces Cortical Dendritic Complexity in a TLR9-Dependent Manner." *BioRxiv*, January 1, 2021, 2021.09.28.462148. <https://doi.org/10.1101/2021.09.28.462148>. (in revision)

Suriano, Christos Michael. "Inositol 1,4,5-Triphosphate Receptor Is Selectively Expressed in Cerebellum but Not Cerebellum-like Structures of the Elasmobranch Fish, *Leucoraja Erinacea*." *Heliyon* 5, no. 1 (January 2019): e01176. <https://doi.org/10.1016/j.heliyon.2019.e01176>.

Suriano, Christos Michael and David Bodznick. "Morphological Development of the Dorsal Hindbrain in an Elasmobranch Fish (*Leucoraja Erinacea*).” *Zoological Letters* 4 (2018): 28.

<https://doi.org/10.1186/s40851-018-0111-1>

Suriano, Christos Michael and David Bodznick. "Evidence for Generative Homology of Cerebellum and Cerebellum-like Structures in an Elasmobranch Fish Based on Pax6, Cbln1 and Grid2 Expression.” *The Journal of Comparative Neurology* 526, no. 14 (October 1, 2018): 2187–2203.

<https://doi.org/10.1002/cne.24473>.

Funding

New Jersey Alliance for Clinical and Translational Science TL1 Postdoctoral Fellowship August 2021
National Institute of Health/National Center for Advancing Translational Sciences
Grant Number 1TL1TR003019 (Scotto)
Principal Investigator: Christos Suriano, Ph.D.

NRSA T32 Training Grant in Quantitative Neuroscience May 2019
National Institute of Health
Grant Number T32MH065214
Principal Investigator: Jonathan Cohen, Ph.D.

Research Experience

Postdoctoral Researcher May 2018- September 2022
Princeton Neuroscience Institute, Princeton University
Principal Investigator - Lisa Boulanger, Ph.D.
Neurovirology and immunology Princeton, NJ

Graduate Researcher August 2012 – April 2018
Biology Department, Wesleyan University
Principal Investigator - David Bodznick, Ph.D.
Developmental neuroscience, Comparative neuroanatomy Middletown, CT

Undergraduate Research Assistant January 2011 - May 2011
Psychology Department, Arizona State University
Principal Investigator - Federico Sanabria, Ph.D.
Spatial Pavlovian conditioning Tempe, AZ

Undergraduate Research Assistant August 2010 – January 2011
Psychology Department, Arizona State University
Principal Investigator - Adam Cohen, Ph.D.
Evolutionary psychology, Psychology of disease avoidance Tempe, AZ

Teaching Experience

Instructor

Montclair State University
BIOL 448 Special Topics in Organismal Biology: Brains, Viruses and Immunity Summer 2023
BIOL 445 Immunology Spring 2023
BIOL 245 Anatomy and Physiology II Spring 2022
BIOL 525 Advanced Systemic Physiology II Spring 2023
BIOL 442 Human Physiology Fall 2022
BIOL 524 Advanced Systemic Physiology I Fall 2022

Princeton University Princeton, NJ
Senior Thesis Writing Course- *How to write an effective senior thesis* (2x) Fall 2020; Fall 2021

Wesleyan University
 BIO 182 Principles of Biology II Lab Section (4x)

Middletown, CT
 Spring 2013 - Spring 2016

NS&B 213 Behavioral Neurobiology 4th Hour Section (2x)

Fall 2013 & Fall 2016

Guest Lectures

Wesleyan University
 NS&B 213 Behavioral Neurobiology
 Title: *The neuronal membrane at rest: formation and maintenance of voltages across the neuronal membrane.*

Middletown, CT
 Fall 2016

Dutchess Community College
 BIO 205 Genetics
 Title: *Evolutionary genetics and modular brain evolution.*

Poughkeepsie, NY
 Spring 2018

Teaching Assistant

Wesleyan University
 BIO 235 Comparative Vertebrate Anatomy
 BIO 247 Lab in Neurophysiology
 E&ES 197 Intro to Environmental Studies
 BIO 182 Principles of Biology II Lecture (4x)
 NS&B 213 Behavioral Neurobiology Lecture (2x) (once as head teaching assistant)

Middletown, CT
 Fall 2012 - 2016

Presentations

Seminars

Suriano, CM. (March 2022). *Adeno-Associated Virus Triggers Immune-Mediated Disruptions to Neuronal Homeostasis.* Seminar presented at **Montclair State University**. Power Point.

Suriano, CM. (December 2021). *Using Viruses to Study and Treat Neurological Disorders: Overcoming Immune Obstacles in the Brain.* Seminar presented at **Princeton Postdoctoral Council Seminar Series**. Power Point.

Suriano, CM. (November 2021). *The Immune Response to Adeno-Associated Virus in the Brain: Implications for Neuroscience and Human Gene Therapy.* Seminar presented at **Princeton Neuroscience Institute Seminar Series**. Power Point.

Suriano, CM. (March 2021). *Investigating the Antiviral Immune Response to AAV in the Brain: Implications for Neuroscience and Human Gene Therapy.* Seminar presented at **Princeton Neuroscience Institute Seminar Series**. Power Point.

Suriano, CM. (June 2019). *Granted Immunity: How the brain's unusual immune response may affect research and gene therapy.* Seminar presented at **Princeton Postdoctoral Council Seminar Series**. Power Point.

Suriano, CM. (May 2019). *Adeno-associated virus (AAV) persistently alters cortical expression of immune genes that can regulate circuit structure and function.* Seminar presented at **Princeton Neuroscience Institute Seminar Series**. Power Point.

Suriano, CM. (4x during 2013-2016). *Neural filters in the early vertebrate brain: the evolution and genesis of the cerebellum and cerebellum-like structures.* Seminar presented at **Department of Biology Seminar, Wesleyan University**. Power Point.

Abstracts and Posters

Patel, Neel; Rios, Joseph and **Suriano, Christos**. (February 2022). Tol-1 TIR binding domain inhibits *C. elegans* foraging behavior in a feeding state dependent manner. Poster presented at **Montclair State University Darwin Day**, Montclair, NJ.

Patel, Neel; Rios, Joseph and **Suriano, Christos**. (October 2022). Deletion of the Tol-1 TIR-binding domain promotes foraging behavior. Poster presented at **Montclair State University Neuroscience Conference**, Montclair, NJ.

Suriano, Christos Michael, Verpeut, Jessica; Kumar, Neerav; Ma, Jie; Jung, Caroline and Boulanger, Lisa. (June 2021). Adeno-associated virus (AAV) reduces dendritic complexity in a TLR9-dependent manner. Poster presented at **Keystone Symposia: Neuroimmune interactions in health and disease**, eSymposia.

Suriano, Christos Michael, Verpeut, Jessica and Boulanger, Lisa. (October 2019). *Adeno-associated virus (AAV) persistently alters cortical expression of immune genes that can regulate circuit structure and function*. Poster presented at **Society for Neuroscience Conference**, Chicago, IL.

Suriano, Christos Michael, Verpeut, Jessica and Boulanger, Lisa. (May 2019), *Adeno-associated virus (AAV) persistently alters cortical expression of immune genes that can regulate circuit structure and function*. Poster presented at **Princeton Neuroscience Institute Retreat**, Avalon NJ.

Suriano, Christos Michael and Bodznick, David. (November 2016). *Evidence for generative homology of cerebellum and cerebellum-like structures in a basal vertebrate*. Poster presented at **Society for Neuroscience Conference**, San Diego, CA.

Science Communication and Outreach

Suriano CM (July 22, 2022) New study by Pinto, Tank and Brody shows that cortical areas operate over different timescales during evidence accumulation. *Princeton Neuroscience Institute News/Events*. Retrieved from <https://pni.princeton.edu/news/new-study-pinto-tank-and-brody-shows-cortical-areas-operate-over-different-timescales-during-evidence-accumulation>

Suriano CM (June 2, 2022) Using Artificial Intelligence and Innovative Design to Save Patient's Lives During the COVID19 Pandemic. *Princeton Neuroscience Institute News/Events*. Retrieved from <https://pni.princeton.edu/news/using-artificial-intelligence-and-innovative-design-save-patient%E2%80%99s-lives-during-covid19-pandemic>

Suriano CM (April 20, 2022) Tracking Animals in Motion: SLEAP Article Published in Nature Methods. *Princeton Neuroscience Institute News/Events*. Retrieved from <https://pni.princeton.edu/news/tracking-animals-motion-sleap-article-published-nature-methods>

Suriano CM. 2021. Foreword. In Kurlander, D. *Through the Eyes of a Canine*. Deer Lodge, Tennessee, United States of America: Winds of Fate Publishing LLC, Pages 14-17.

Suriano CM "Neuroscience, virology and immunology". *EPSP Brain Talks*. October 25, 2021. STEM Civics High School, Ewing, NJ.

Suriano CM (August 24, 2021) Wiring Diagram of the Brain by Seung Lab Includes 200,000 Cells and 500 Million Synapses. *Princeton Neuroscience Institute News/Events*. Retrieved from <http://pni.princeton.edu/news/wiring-diagram-brain-seung-lab-includes-200000-cells-and-500-million-synapses>

Suriano CM (August 24, 2021) Annegret Falkner awarded the Klingenstein-Simons Fellowship in Neuroscience. *Princeton Neuroscience Institute News/Events*. Retrieved from <http://pni.princeton.edu/news/annegret-falkner-awarded-klingenstein-simons-fellowship-neuroscience>

Suriano CM (June 9, 2021) TEM facility. *Princeton Neuroscience Institute News/Events*. Retrieved from <https://pni.princeton.edu/news/pni-newsletter-%E2%80%93-tem-facility>

Suriano CM “Neuroanatomy”. *EPSP Brain Talks*. April 21-22, 2021. Princeton High School, Princeton, NJ

Suriano CM and Kurlander, David. “Zoonosis and Virus Behavior”. *The Pack Animal Podcast*. December 9, 2020. <https://steadywinddog.com/packanimalpodcast>

Suriano CM (December 4, 2020). PNI Viral Core Facility. *Princeton Neuroscience Institute News/Events*. Retrieved from <http://pni.princeton.edu/news/pni-newsletter-pni-viral-core-facility>

Suriano CM (July 28, 2020). Jamal Williams named D-SPAN Scholar by NIH. *Princeton Neuroscience Institute News/Events*. Retrieved from <https://pni.princeton.edu/news/jamal-williams-named-d-span-scholar-nih-0>

Suriano CM and Kurlander, David. “A Genetic Look into the Evolution of Canine Behavior”. *The Pack Animal Podcast*. March 10, 2019. <https://steadywinddog.com/packanimalpodcast>

Suriano CM (2017, October). Purkinje Cells Micrograph. *Inter Stellate*, 2, 63.

Service to Professional Organizations

Reviewer

Zoologischer Anzeiger January 2022

Journal of Neurochemistry June 2019

University Service

Faculty Search Committee

Montclair State University Fall 2022
Montclair, NJ

Educational Policy Committee

Wesleyan University Fall 2016 - 2017
Middletown, CT

Graduate Admissions Committee

Wesleyan University Fall 2016 - 2017
Middletown, CT

President of the Biology Graduate Student Association

Wesleyan University Fall 2013 - 2014
Middletown, CT

Society Memberships

Association for Clinical and Translational Science

2021-2022

Society for Neuroscience

2014; 2016; 2019

Awards

Princeton Postdoctoral Seminar Series 2nd Place Prize

Prize for best seminar presentation

December 2021
Princeton University

Keystone Trainee Scholarship

Scholarship to attend Keystone eSymposia on Neurodegenerative Diseases

May 2021
Princeton University

Kieffer Prize

Prize for overall excellence in graduate work and the public defense

April 2018
Wesleyan University

Press

Ciceu, Amy (January 21, 2022) AAV: Versatile Viral Hero or Neurotoxic Villain? *Princeton Insights*. Retrieved from: <https://insights.princeton.edu/2022/01/aav/>

El Hady, Ahmed (November 19, 2021) PNI Postdoc Christos Suriano awarded NIH-Funded NJ ACTS Fellowship. *Princeton Neuroscience Institute News/Events*. Retrieved from: <https://pni.princeton.edu/news/pni-postdoc-christos-suriano-awarded-nih-funded-nj-acts-fellowship>

References

David Bodznick
Professor Emeritus of Biology
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Ann Burke
Professor of Biology
Wesleyan University
acburke@wesleyan.edu
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Lisa Boulanger
Associate Professor
Princeton University
lboulang@princeton.edu
609-258-2717