Curriculum Vitae Yunlu Zhu

Yunlu Zhu, Ph.D.

Leon Levy Neuroscience Fellow

Neuroscience Institute, NYU Grossman School of Medicine 435 E $30^{\rm th}$ St, SB1123R, New York, NY 10016, USA

Email: yunluzhu.g@gmail.com | yunlu.zhu@nyulangone.org

Education

Ph.D. in Biology: Developmental Biology & Neuroscience
 University of Virginia, VA
 B.S. in Life Sciences: Cell Biology
 University of Science and Technology of China, Anhui, China

Research Experience

Rainwater 30th Anniversary Tau Leadership Fellow

Leon Levy Neuroscience Fellow

Post-doctoral Fellow

01/2022 - Present
06/2020 - Present
10/2019 - Present

Supervisor: Dr. David Schoppik

Neuroscience Institute, NYU Grossman School of Medicine, NY

- New zebrafish model for tauopathies
- New technique for imaging neuronal response to body tilt (J. Neuro. 2022)
- New behavior apparatus to examine zebrafish balance behavior (Cell Reports. 2023)

Doctoral Researcher 08/2013 – 09/2019

Supervisor: Dr. Sarah Kucenas

Department of Biology, University of Virginia, VA

- Novel function of neural crest cells in developmental debris clearance (Cell, 2019)
- Roles of glycolysis in efferocytosis (Nature, 2018)

Undergraduate Research Assistant

08/2012 - 06/2013

Institute of Biochemistry and Cell Biology, Shanghai, China

New protein complex during ciliogenesis (Nat. Cell Bio., 2013)

Publications

Journal Articles

- 1. **Zhu Y**, Auer F, Gelnaw H, Davis SN, et al. (2023), SAMPL is a high-throughput solution to study unconstrained vertical behavior in small animals. *Cell Reports*
- D'Elia KP, Hameedy H, Goldblatt D, Frazel P, Kroese M, Zhu Y, Hamling KR, Kawakami K, Liddelow S, Schoppik D, Dasen JS. (2022), Determinants of Motor Neuron Functional Subtypes Important for Locomotor Speed. *Cell Reports*
- 3. Hamling KR, **Zhu Y**, Auer F, Schoppik D. (2022), Tilt In Place Microscopy (TIPM): a simple, low-cost solution to image neural responses to body rotations. *The Journal of Neuroscience*
- 4. Arena K, **Zhu Y**, Kucenas S. (2022), Transforming growth factor-beta signaling modulates perineurial glial bridging following peripheral spinal motor nerve injury in zebrafish. *Glia*

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5. **Zhu Y,** Crowley SC, Latimer AJ, Lewis GM, Nash R, Kucenas S. (2019), Migratory Neural Crest Cells Phagocytose Dead Cells in the Developing Nervous System. *Cell*

- 6. Morioka S, Perry SAJ, Raymond MH, Medina CB, **Zhu Y**, Zhao L, Sebulea V, Onengut S, Leitinger N, Kucenas S, Rathmell JC, Makowski L, Ravichandran KS. (2018), Efferocytosis induces a novel SLC program to promote glucose uptake and lactate release. *Nature*
- 7. Zhao H, Zhu Y, Cao J, Li S, Huang Q, Xu T, Huang X, Yan X, Zhu X. (2013), The Cep63 paralogue Deup1 enables massive de novo centriole biogenesis for vertebrate multiciliogenesis. *Nature Cell Biology*

Book Chapters & Invited Contributions

- 1. **Zhu Y**, Hamling KR, Schoppik D. (2020), Chapter 6.25: Vestibulospinal Circuits and Posture Control Mechanisms in Fish. *The Senses (Second Edition)*
- 2. Micrographs: Garrett RH, Grisham CM. (2016), Chapter 12: Recombinant DNA, Cloning, Chimeric Genes, and Synthetic Biology. *Biochemistry (Sixth Edition)*

Grants & Awards

1.	The International Zebrafish Society Christine Beattie Award The International Zebrafish Society	2022
2.	30th Rainwater Tau Leadership Award The Rainwater Charitable Foundation, Fort Worth, TX	2022
3.	Leon Levy Fellowship in Neuroscience The Leon Levy Foundation, New York, NY	2020
4.	Outstanding PhD Dissertation Award (The Fleming Prize) Department of Biology, University of Virginia, VA	2020
5.	The Dent Award Department of Biology, University of Virginia, VA	2020
6.	UVA Brain Grant Brain Institute, University of Virginia, VA	2017, 2019
7.	(Britt) Travel Award Graduate Student and Post-Doc Association, University of Virginia, VA	2016, 2017, 2019
		2016, 2017, 2019
	Graduate Student and Post-Doc Association, University of Virginia, VA	2016, 2017, 2019
Se	Graduate Student and Post-Doc Association, University of Virginia, VA elected Conference Talks 17th meeting of the International Zebrafish Conference (IZFC) Virtual / Montreal, Canada	
1. 2.	Graduate Student and Post-Doc Association, University of Virginia, VA elected Conference Talks 17th meeting of the International Zebrafish Conference (IZFC) Virtual / Montreal, Canada 14th meeting of the Zebrafish Disease Models Society (ZDM14)	2022

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5.	Cold Spring Harbor Laboratory (CSHL): Glia in Health Cold Spring Harbor, NY	& Disease 2018	
6.	International Zebrafish Conference (IZFC) University of Wisconsin-Madison, Madison, WI	2018	
7.	Mid-Atlantic Regional Zebrafish Meeting (MARZ) National Institutes of Health, Bethesda, MD	2016	
Selected Poster Presentations			
•	15th meeting of the Zebrafish Disease Models Society Virtual / Sheffield, UK	(ZDM15) 2022	
•	Alzheimer's Association International Conference (AAl Virtual / San Diego, CA	C) 2022	
•	Society for Neuroscience (SFN) Annual Meeting: Neuro	oscience 2021 2021	
•	American Society for Neurochemistry (ASN) Annual M Virtual / Denver, CO	eeting 2021, 2016	
•	International Zebrafish Conference (IZFC) Virtual / Madison, WI / Denver, CO	2021, 2018, 2016	
•	Cold Spring Harbor Laboratory (CSHL): Zebrafish Neu Cold Spring Harbor, NY	ral Circuits & Behavior 2019	
•	Gordon Research Conference (GRC): Glial Biology Ventura, CA	2019, 2017	
•	Mid-Atlantic Regional Society for Developmental Biolo University of Virginia, Charlottesville, VA.	ogy Meeting (MASDB) 2018	
•	Cold Spring Harbor Laboratory (CSHL): Glia in Health Cold Spring Harbor, NY	& Disease 2019, 2018	
•	Mid-Atlantic Regional Zebrafish (MARZ) Meeting NYU School of Medicine, NY / Johns Hopkins University	2017, 2015 ity, Baltimore, MD	
Teaching & Advising			
Postdoc Mentor Neuroscience Institute, NYU Grossman School of Medicine, NY			
Graduate Mentor 2015 – 2019			
Department of Biology, University of Virginia, VA			
Lecturer, Lab Leader & Teaching Assistant Sprin		Spring 2014, Spring 2015 & Fall 2015	

Department of Biology, University of Virginia, VA

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Academic & Leadership Services			
SPiNES Seminar Series Committee Member Neuroscience Institute, NYU Grossman School of Medicine, NY	2022-23		
Leon Levy Mini-symposium Organizer, Host Virtual	08/2021		
Neuroscience Outreach Group at NYU Immersive Neuroscience Program Assistant Lecturer Virtual	07/2021		
Intersections Science Fellows Symposium Organizer - Programming Committee Virtual	01/2021		
Neuroscience Guest Lecture and Workshop Assistant Lecturer Columbia Pre-college Summer Immersion Program, NY	07/2020		
Science Class at Elementary School Invited Lecturer Woodbrook Elementary School, VA	12/2018		
Biology Lab Workshop	12/2016, 12/2017		

Lecturer

Thomas Harrison Middle School STEM, VA