# Thiago Arzua, Ph.D.

Leon Levy Postdoctoral Scholar Columbia University – Mortimer B. Zuckerman Mind Brain Behavior Institute

### **Contact Information**

Jerome L. Greene Science Center 3227 Broadway <u>ta</u> New York, NY 10027	+1 (212)-853-0600 a2701@columbia.edu thiagoarzua.com
Education	
<b>Cold Spring Harbor Course</b> Intensive Fall course focused in High Throughput Neuroanatomy Cold Spring Harbor Laboratories – Cold Spring Harbor, NY	2023
<b>Doctor of Philosophy – Neuroscience</b> Concentration in Basic and Translational Science Medical College of Wisconsin – Milwaukee, WI	2021
<b>Interactive Track Certificate – Neuromatch Academy</b> Neuromatch is a worldwide academy aimed at training neuroscientists to learn computa Online	2020 ational tools.
<b>Bachelor of Arts – Chemistry</b> French Minor University of South Florida – Honors College – Tampa, FL	2016
Research Experience	
<b>F</b>	
<b>Columbia University</b> Postdoctoral Research Scientist – Department of Neuroscience – Mentor: Bianca Jones Focus: The neurodevelopmental aspects of transgenerational epigenetic inheritance of t	
Columbia University Postdoctoral Research Scientist – Department of Neuroscience – Mentor: Bianca Jones	-Marlin, Ph.D. rraumatic experiences <b>2016 – 2021</b>
Columbia University Postdoctoral Research Scientist – Department of Neuroscience – Mentor: Bianca Jones Focus: The neurodevelopmental aspects of transgenerational epigenetic inheritance of t Medical College of Wisconsin Doctoral Candidate – Department of Physiology – Mentor: Xiaowen Bai, M.D., Ph.D. Dissertation Title: Brain Organoids and Long Non-Coding RNAs: Neuroprotective	-Marlin, Ph.D. rraumatic experiences <b>2016 – 2021</b> pathways in alcohol- <b>2015 – 2016</b> er, Ph.D.
<ul> <li>Columbia University</li> <li>Postdoctoral Research Scientist – Department of Neuroscience – Mentor: Bianca Jones</li> <li>Focus: The neurodevelopmental aspects of transgenerational epigenetic inheritance of t</li> <li>Medical College of Wisconsin</li> <li>Doctoral Candidate – Department of Physiology – Mentor: Xiaowen Bai, M.D., Ph.D.</li> <li>Dissertation Title: Brain Organoids and Long Non-Coding RNAs: Neuroprotective induced developmental neurotoxicity</li> <li>University of South Florida</li> <li>Thesis Candidate – Department of Psychiatry and Neuroscience – Mentor: Lynn Wecker</li> </ul>	e-Marlin, Ph.D. raumatic experiences <b>2016 – 2021</b> pathways in alcohol- <b>2015 – 2016</b> er, Ph.D. ve Deficits <b>2014 – 2015</b>

#### **Publications**

- 1. Arzua T, Yan Y, Liu X, Liu Q, Dash R, Bai X. Synaptic and mitochondrial mechanisms behind alcoholinduced imbalance of excitatory/inhibitory synaptic activity and associated cognitive and behavioral abnormalities. *Translational Psychiatry*. 14.1, 1-17 (2024).
- 2. Yan Y, Logan S, Liu X, Chen B, Jiang C, Arzua T, Ramchandran R, Liu Q, Bai X. Integrated excitatory/imbalance and transcriptomic analysis reveals an association between dysregulated synaptic genes and anesthetic-induced cognitive dysfunction. *Cells* 2022, 11(16), 2497 (2022).
- 3. Daskalska, L, O'Brien B, Arzua T, Bakken B. Family support policy for pharmacy, medical, and graduate students. *Journal of Science Policy & Governance*. 20-02, May 16 (2022).
- 4. Gunaratne GS, Rebbeck RT, McGurran LM, Yan Y, **Arzua T**, Frolkis T, Bai X, Cornea RL, Walseth TF, Marchant JS. Identification of a dihydropyridine scaffold that blocks ryanodine receptors. *iScience*. 25(1), 103706 (2022).
- 5. Jeong N, Sefik E, Shiu FH, Arzua T. Investing in international graduate students for the scientific endeavour keeps the us competitive. *Journal of Science Policy & Governance*. 18-03, Aug 30 (2021).
- 6. Arzua T, Jiang C, Yan Y, Bai X. The importance of non-coding RNAs in environmental stress-related developmental brain disorders: a systematic review of evidence associated with exposure to alcohol, anesthetic drugs, nicotine, and viral infections. *Neuroscience & Biobehavioral Reviews*. 128:633-647 (2021).
- 7. Jiang C, **Arzua T**, Yan Y, Bai X. Expression signature of lncRNAs and mRNAs in sevoflurane-induced mouse brain injury: implication of involvement of wide molecular networks and pathways. *International Journal of Molecular Sciences*. 22.3:1389 (2021).
- 8. Yan Y, Arzua T, Logan S, Bai X. Isolation and culture of human induced pluripotent stem cell-derived cerebral organoid cells. *Methods in Molecular Biology*. 1-12 (2020).
- 9. Arzua T, Yan Y, Allison RL, Jiang C, Logan S, Wells C, Kumar S, Schäfer R, Bai X. Modeling alcoholinduced neurotoxicity using human induced pluripotent stem cell-derived three-dimensional cerebral organoids. *Translational Psychiatry*. 10.1, 1-21 (2020).
- 10. Logan S, **Arzua T**, Jiang C, Yan Y, Bai X. Dynamic characterization of structural, molecular, and electrophysiological phenotypes of human-induced pluripotent stem cell-derived cerebral organoids, and comparison with fetal and adult gene profiles. *Cells*. 9(5), 1301 (2020).
- 11. Logan S, Arzua T, Canfield SG, Seminary ER, Sison SL, Ebert AD, Bai X. Studying human neurological disorders using induced pluripotent stem cells: from 2D monolayer to 3D organoid and blood brain barrier models. *Comprehensive Physiology*. Jan 17;9(2):565-611 (2019).
- Logan S, Jiang C, Yan Y, Inagaki Y, Arzua T, Bai X. Propofol alters long non-coding RNA profiles in the neonatal mouse hippocampus: Implication of novel mechanisms in anesthetic-induced developmental neurotoxicity. *Cellular Physiology and Biochemistry*. 49(6):2496-510 (2018).
- 13. Jiang C, Logan S, Yan Y, Inagaki Y, **Arzua T**, Ma P, Lu S, Bosnjak ZJ, Bai X. Signaling network between the dysregulated expression of microRNAs and mRNAs in propofol-induced developmental neurotoxicity in mice. *Scientific Reports*. Sep 21;8(1):1-3 (2018).
- Moehring F, Cowie AM, Menzel AD, Weyer AD, Grzybowski M, Arzua T, Geurts AM, Palygin O, Stucky CL. Keratinocytes mediate innocuous and noxious touch via ATP-P2X4 signaling. *eLife.* Jan 16;7:e31684 (2018).
- 15. Yan Y, Qiao S, Kikuchi C, Zaja I, Logan S, Jiang C, **Arzua T**, Bai X. Propofol induces apoptosis of neurons but not astrocytes, oligodendrocytes, or neural stem cells in the neonatal mouse hippocampus. *Brain Sciences.* Oct;7(10):130 (2017).
- 16. Jin LM, Lu H, Cui Y, Lizardi CL, Arzua T, Wojtas L, Cui X, Zhang XP. Selective radical amination of aldehydic C (sp 2)–H bonds with fluoroaryl azides via Co (II)-based metalloradical catalysis: synthesis of N-fluoroaryl amides from aldehydes under neutral and nonoxidative conditions. *Chemical Science*. 5(6):2422-7 (2014).

## Honors and Awards

Exceptional Scholars Workshop – The Rockefeller University	2024
Leon Levy Scholarship in Neuroscience – New York Academy of Sciences	2023
30 Under 30 in Science – Forbes Magazine	2022
Achievement in Physiology Award – Medical College of Wisconsin	2022
Third Place Winner - JSPG & Sigma Xi Policy Paper Competition	2022
Outstanding Scholars in Neuroscience Award Program – National Institutes of Health	2021
Trainee Professional Development Award – Society for Neuroscience	2020
Early Career Policy Ambassador – Society for Neuroscience	2020
Graduate Student Travel Award – Medical College of Wisconsin	2019
Undergraduate Scholar – University of South Florida	2016
Outstanding Rookie Student Leader – INTO University of South Florida	2016
Clear Springs Land Undergraduate Research Award – University of South Florida	2014
Martin Travel Awards for Undergraduates – University of South Florida	2013
1 <sup>st</sup> Place Poster Award – Castle Student Research Conference	2013
International Student Scholarship – University of South Florida	2012
Invited Talks and Public Engagement	
Math For America Mini Course	10/2024
How to Create a Brain: Neurodevelopment, Stem Cells, and Brain Organoids	
Pavlovian Society Conference	09/2024
Locus Coeruleus: Integrating Behavior and Physiology	
Bard High School Early College Black Lives Matter Day of Action	02/2024
Black In Neuro: A Successful Diversity, Equity, and Inclusion Initiative	
Cornell University Community Neuroscience Initiative	02/2024
How trauma gets passed through multiple generations: Lessons from epigenetics	
Memory and Slavery Seminar	10/2023
Epigenetic Inheritance: Understanding Transgenerational Trauma	
Math For America Workshop	10/2023
How to Create a Brain: Neurodevelopment and Brain Organoids	
Music on the Brain	09/2023
Ancestral Callings	
Emory Early Career Seminar Series	08/2023
Connecting the Dots: Stem Cells, Neurodevelopment, and the Inheritance of Trauma	
Facts Machine	03/2023
Taking a Brain Check	
Math For America Workshop	03/2023
How to Create a Brain: Neurodevelopment and Stem Cells	
BioBus Harlem Junior Scientist	12/2022
Neurodevelopment and the Inheritance of Trauma	
Urban Design Forum	12/2022
Mindful Places – Public Space and Mental Health	
The Story Collider	10/2022

### The Story Collider

Blending In: Stories about trying to belong

New York Academy of Sciences – Extremes Expert Series	09/2022
Exploring the Extremes of Neuroscience	
Corpus Curiosum – Series IV	06/2022
Black In Neuro: Challenges in research and medicine	
Medical College of Wisconsin – Clinical Research Scholars Program	05/2022
Using Social Media to Promote Your Research	
Loyola University – Seminar in Molecular/Cellular Neuroscience	11/2021
Brain organoids: Modeling neuroprotective signaling in developmental neurotoxicity	
Federal University of Rio de Janeiro – Caxias É Live	10/2021
Black in Neuro – Empoderando Negros na Ciência (in Portuguese)	
Federal University of Santa Catarina – Postgraduate Program in Neuroscience	11/2020
Black in Neuro Week: A Successful Diversity, Equity, and Inclusion Initiative	
Loyola University – Neuroscience Society	10/2020
Brain Organoids as Models for Alcohol-induced Neurotoxicity	
Congresso Brasileiro Interligas de Neurologia, Neurocirurgia e Neurociências	09/2020
Carreira Acadêmica no Exterior (in Portuguese)	
Grad Chat with PhD Balance	07/2020
International Students and Being Abroad	
Ask Me, I'm a Scientist with Dr. Susanna Harris	03/2020
Why Pregnant Moms Shouldn't Drink	
Medical College of Wisconsin – 2 <sup>nd</sup> Annual Student Health Sciences Conference	01/2020
Discovery of Purpose, Passion, and Perseverance in the Health Sciences	
Underground Science Society	07/2019
Mini Brains: The Exciting World of Lab Grown Mini Organs	-

#### **Conference Presentations**

- 1. Arzua T, Cardeiro A, Ferguson DL, McRae BR, Viña-Albarracin A, Marlin BJ. Norepinephrine modulation of intergenerational stress-induced olfactory plasticity. *Society for Neuroscience* (10/2024).
- Arzua T, Ferguson DL, McRae BR, Viña-Albarracin A, Marlin BJ. The role of norepinephrine modulation in intergenerational stress-induced olfactory stem cell receptor fate. *Optogenetic Approaches to Understanding Neural Circuits and Behavior Gordon Research Conference* (07/2024).
- 3. O'Brien B, **Arzua T**, Daskalska, L, Bakken B. Family Support Policy for Pharmacy, Medical, and Graduate Students. *Society for Neuroscience* (11/2022).
- 4. Arzua T, Yan Y, Jiang C, Logan S, Bai X. Brain Organoids and Long non-coding RNAs: Neuroprotective pathways in Developmental Neurotoxicity. *NIH Outstanding Scholars in Neuroscience Award Program Symposium* (12/2021).
- 5. Arzua T, Yan Y, Jiang C, Logan S, Bai X. Honokiol acts as a neuroprotective in alcohol-induced developmental neurotoxicity in brain organoids. *Society for Neuroscience* (11/2021).
- Arzua T, Yan Y, Jiang C, Logan S, Allison RL, Wells C, Kumar S, Schäfer R, Bai X. Brain Organoids as a Models for Alcohol-induced Developmental Neurotoxicity. *Society for Neuroscience Global Connectome* (01/2021).
- Arzua T, Yan Y, Jiang C, Logan S, Allison RL, Wells C, Kumar S, Schäfer R, Bai X. Stem Cell-derived Cerebral Organoids as Models for Studying Alcohol-induced Developmental Neurotoxicity: Analyses at Tissue, Cellular, Subcellular, and Gene Levels. EMBO | EMBL Organoids: Modelling Organ Development and Disease in 3D Culture (10/2020).

- 8. Arzua T, Yan Y, Jiang C, Logan S, Allison RL, Wells C, Kumar S, Schäfer R, Bai X. Modeling Alcohol-Induced Neurotoxicity using Human iPSC-Derived Cerebral Organoids. *International Society for Stem Cell Research Annual Meeting* (06/2020).
- 9. Arzua T, Logan S, Yan Y, Bai X Exposure to ethanol leads to abnormal signaling network of long noncoding RNAs and mRNAs in neonatal mouse brains *Medical College of Wisconsin Graduate Student Poster Session* (11/2019).
- 10. Arzua T, Logan S, Jiang C, Yan Y, Liu X, Liu QS, Bai X. Excitatory and inhibitory imbalance may contribute to the propofol-induced developmental neurotoxicity through NPAS4 signaling. *Society for Neuroscience* (11/2018).
- 11. Arzua T, Jiang C, Logan S, Yan Y, Bosnjak Z, Bai X. Anesthetic-induced downregulation of NPAS4 might contribute to developmental neurotoxicity in neonatal mice. *Medical College of Wisconsin 1st Annual Graduate Student Symposium* (03/2018).
- 12. Arzua T, Jiang C, Logan S, Yan Y, Bosnjak Z, Bai X. Anesthetic-induced downregulation of NPAS4 might contribute to developmental neurotoxicity in neonatal mice. *Medical College of Wisconsin Graduate Student Poster Session* (10/2017).
- 13. Arzua T, Moehring F, Reynolds A, Stucky CL. Light-modulated Keratinocytes and Sensory Neurons: Insights into Mechanotransduction. *Medical College of Wisconsin Graduate Student Poster Session* (10/2016).
- 14. Arzua T, Posner K, Ficken M, Philpot R, Wecker L. The Neurochemical Effects of Choline in Chemotherapy-Related Cognitive Deficits. University of South Florida Undergraduate Research and Arts Colloquium (04/2016).
- Arzua T, Grieco JC, Ciarlone SL, KD Lamens, EJ Weeber. Determining the Neurobiological Effects of Minocycline in Angelman Syndrome Mouse Model. University of South Florida Undergraduate Research and Arts Colloquium (04/2015).
- Arzua T, Grieco JC, Ciarlone SL, KD Lamens, EJ Weeber. Determining the Neurobiological Effects of Minocycline in Angelman Syndrome Mouse Model. USF Health Research Day (02/2015).
- 17. Arzua T, Jin LM, Zhang XP. Metalloradical catalyzed N=N bond formation with fluoroaryl azides: A new approach to the synthesis of fluoroazobenzene compounds. *Southeastern Regional Meeting of the American Chemical Society* (11/2013).
- 18. Arzua T, Jin LM, Zhang XP. Effective Synthesis of Chiral N-Fluoroaryl Aziridines via Enantioselective Aziridination of Alkenes with Fluoroaryl Azides. University of South Florida Undergraduate 7th Annual Oktoberfest (10/2013).
- 19. Arzua T, Jin LM, Lizardi CL, Zhang XP. N=N Bond Formation via Metalloradical Catalysis (MRC): An Efficient Synthesis of Fluoroazocompounds. University of South Florida Undergraduate Research and Arts Colloquium (04/2013).
- 20. Arzua T, Jin LM, Lizardi CL, Zhang XP. Highly Efficient Synthesis of Fluoroazocompounds by Metalloradical Catalysis. 11<sup>th</sup> Raymond Castle Student Research Conference (04/2013).

#### Scientific Talks

Rockefeller University's Exceptional Scholars Workshop	07/2024
Inheritable Stress-induced Plasticity: Understanding the Role of Noradrenaline Modulation	
Annual Symposium for the Leon Levy Scholarships in Neuroscience	05/2024
Noradrenaline and Inheritable Trauma: From Circuitry to Modulation	
NIH Outstanding Scholars in Neuroscience Award Program Symposium	12/2021
Brain Organoids and Long non-coding RNAs	
Regenerative Medicine and Stem Cell Biology Forum	10/2021
Studying lncRNA regulation of neuroprotective signaling in developmental neurotoxicity	

Curriculum Vitae

Department of Physiology	06/2021
NPAS4-mediated Neuroprotection from Alcohol-Induced Neurotoxicity on Brain Organoids	
Developmental Biology Club	11/2020
Modeling Neuroprotection from Alcohol-Induced Neurotoxicity with Brain Organoids	
Basic and Translational Science Seminar Series	08/2019
Stem Cells and Disease Modeling	
Department of Physiology	07/2019
Long noncoding RNAs and Alcohol-Induced Developmental Brain Injury	

### Leadership and Outreach

#### Society for Neuroscience Minisymposium

Chair

• Organized and chaired a minisymposium titled "The Noradrenergic System: New Insights From Circuit Regulation to Behavior Modulation" with leading neuroscientists the field of noradrenaline modulation.

#### Gordon Research Conference Power Hour

Co-host

- Helped organize and host the power hour for the Optogenetic Approaches to Understanding Neural Circuits and Behavior GRC with the goals to improve diversity and inclusion in science.
- Society for Neuroscience Trainee Advisory Committee2021 PresentCommittee Member2021 Present
- The committee's goal is to assist the Society in supporting neuroscience trainee development and enhancing the trainee members' experience. Provided a trainee's perspective, as well as helped to monitor the effectiveness of developed programs in reaching trainees.

#### Black in Neuro

Co-founder and Organizer

 Black in Neuro is a unique professional development program highlighting Black contributions to neuroscience, neurology, and related fields. Helped the team create events, including multiple seminars, journal clubs, and digital content with preeminent Black neuroscientists across the world.

#### Clubes de Ciência (Science Clubs) Brasil

Organizer

• Science Clubs is an organization aiming at inspiring and developing scientific engagement in teenagers and young adults by offering free workshops and mentoring sections. Organizers prepare educational and scientific content for high school students in Brazil with a focus on neuroscience and stem cell biology

#### Society for Neuroscience

Early Career Policy Ambassador

• This program is designed to develop skills to advocate for science and to encourage science policy conversations with policymakers at different levels. Engaged with members of Congress about the value of a strong national investment in scientific research, especially advocating for neuroscience research.

#### Massive Science Consortium

Freelance Writer

• Massive Science is a content and media company delivering bleeding-edge scientific research and expertise, and providing trustworthy, entertaining, and shareable science content. Authored several different articles about various neuroscience topics.

#### 2020 - Present

2024

2024

# 2020 - 2021

#### 2019 - 2021

2020 - 2021

2017 - 2019

2016 - 2018

2014

### Milwaukee Area Science Advocates

Social Media Manager

Milwaukee Area Science Advocates is a local non-profit aimed to increase scientific enthusiasm, understanding, and legislative value in the Milwaukee area. Managed online content to build meaningful connections and encourage community members to take action on different social media platforms.

#### **BRASA** Impāctus

Co-founder and Content Coordinator

Impāctus is a platform of social impact initiatives that intend to connect Brazilian students abroad with the reality of economically challenged communities in Brazil. Directed and analyzed case competitions in partnership with the biggest companies in Brazil.

### Hospital do Trabalho ("Worker's Hospital" - Curitiba, Brazil)

#### Interpreter

• Ten weeks volunteer position as English, Spanish, and French interpreter for international patients during the FIFA world cup

### Service and Committees

#### Columbia University - New York, NY

#### Loyola University Community Advisory Board

Aided in establishing and maintaining different projects put forward by Loyola University that aimed to improve the connection between neuroscience and society, with a focus in STEM in the Chicago area.

#### Zuckerman Institute Trainee Advisory Committee

o Lead the committee with the goal of connecting the experiences of graduate students, postdocs, and research assistants to the leadership at the institute to improve mentorship.

#### Columbia Postdoctoral Workers - Bargaining Committee

Worked with the members of the postdoctoral union to bring the most pressing concerns of workers to the negotiation of a new contract with Columbia University.

#### Medical College of Wisconsin - Milwaukee, WI

#### **Diversity and Inclusion Action Committee**

Represented the graduate students in an institution-wide committee dedicated to developing an 0 institutional culture that fosters the recruitment, nurturing, and retention of a diverse population.

#### Graduate Outreach Program

• Assisted in planning visits and recruiting students for the graduate program and summer programs.

#### **Graduate School Public Relations**

o Served as liaison between the Graduate Student Association and the general public by maintaining the webpage, email account, and social media accounts.

#### **Brain Expo Organizing Committee**

Helped with the organization and presentation of an expo open to community members, aimed to raise 0 awareness for neuroscience and neurological diseases.

#### Student Symposium Committee

Organized a student-ran symposium for over 100 graduate, pharmacy, and medical students, including reviewing and judging abstracts, posters, and oral talks.

#### **Course Evaluation Committee**

Responsible for reviewing course evaluations completed by the student at the end of each term as well as 0 triennial course reviews.

#### 2019 - 2021

# 2016 - 2021

2019 - 2020

#### 2019

#### 2017-2019

#### 2017 - 2018

2022 - 2023

2024 - Present

2022 – Present

Curricul	υm	Vitae
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2018 - 2019

2013 - 2016

2019

2019

2017

University of South Florida - Tampa, FL

Phi Delta Epsilon Medical Fraternity 2015 – 2016	
Research Director	
• Responsible for providing the chapter with research opportunities, both through the university and to	
other labs, as well as contributing to presentations and workshops.	
Triathlon Club         2015 – 2016	
Treasurer	
o Administrated the spending, reimbursements, purchases, and sponsorships of the club. Ensured the	
appropriate budgets for the year and for the fundraising events.	
Alpha Epsilon Delta Pre-Med Honors Society2014 – 2015	
Secretary	
• Organized and maintained the meeting minutes, developed and emphasized events for the calendar in each term, e-mailed members with relevant information, and kept the organization of the rooms used	
Chemistry Society 2013 – 2015	
Secretary and Events Coordinator	
• Responsible for the bi-weekly newsletter, as well as e-mailing the members with relevant information about upcoming events and lectures.	
Mentoring	
Mentoring Rotation Mentor in Dr. Bianca Jones Marlin's Lab 2022 – Present	
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Rotation Mentor in Dr. Bianca Jones Marlin's Lab2022 – Present	
Rotation Mentor in Dr. Bianca Jones Marlin's Lab2022 – PresentMentees: Amanda Anqueira-González, and Vanessa López	
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Diversity Summer Health-Related Research Education Program Mentor

Wauwatosa STEM Elementary School Science Fair Judge

College For Every Student Mentor – Greco Middle School

Milwaukee Public School Middle School Science Fair Judge

Annual Biomedical Research Conference for Minority Students Poster Judge

Mentees: Adora Wang and Jennifer Landeta