



Robin Isadora Brown, Ph.D.

Curriculum Vitae, July 2026

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EDUCATION

- 2017 – 2024** **University of Virginia, Charlottesville, VA**
Doctor of Philosophy in Biology
Concentration: Molecular Genetics, Cell & Development
Dissertation: “*Characterization of peripheral satellite glial cells and their effects on axon regrowth following injury in a zebrafish developmental model*”
- 2010 – 2024** **University of Virginia, Charlottesville, VA**
Bachelor of Arts in Biology
Highest Distinction

WORK EXPERIENCE

- 2024 – Present** **Charlottesville, VA**
Independent Research Consultant
- 2017 – 2024** **University of Virginia, Charlottesville, VA**
Doctoral Researcher in S. Kucenas Lab
Department of Biology; Program in Fundamental Neuroscience
- 2015 – 2017** **University of Virginia School of Medicine, Charlottesville, VA**
Lab Specialist in R. Ariel Gomez Lab
Department of Pediatrics; Child Health Research Center
- 2014 – 2015** **University of Texas at Austin, Austin, TX**
Lab Technician in D. Stein Lab
Department of Molecular Biosciences
- 2012 – 2014** **University of Virginia, Charlottesville, VA**
Undergraduate Researcher in B. Blackman Lab
Department of Biology

PEER-REVIEWED PUBLICATIONS

* Authors contributed equally 0000-0002-1398-5721 (ORCID)

- Barber HM, Robbins CG, Cutler Z, **Brown RI**, Jung LE, Werkman I, Kucenas S. Radial astroglia cooperate with microglia to clear neuronal cell bodies during zebrafish optic tectum development. *Cell Reports*. 44(11), 116509 (2025).
- Brown RI**, Barber HM, Kucenas S. Satellite glial cell manipulation prior to axotomy enhances developing dorsal root ganglion central branch regrowth into the spinal cord. *Glia*. 72(10), 1766-1784 (2024).
- Brown RI**, Kawakami K, Kucenas S. A novel gene trap line for visualization and manipulation of *erbb3b⁺* neural crest and glial cells in zebrafish. *Developmental Biology*. 482, 114-123 (2022).
- Watanabe H, Martini AG, **Brown RI**, Liang X, Medrano S, Goto S, Narita I, Arend LJ, Sequeira-Lopez MLS, Gomez RA. Inhibition of the renin-angiotensin system causes concentric hypertrophy of renal arterioles in mice and humans. *JCI Insight*. 6(24), e154337 (2021).

- Creux NM, **Brown RI**, Garner AG, Saeed S, Scher CL, Holalu SV, Yang D, Maloof JN, Blackman BK, Harmer SL. Flower orientation influences floral temperature, pollinator visits and plant fitness. *New Phytologist*. 232(2), 868-879 (2021).
- Piller M, Werkman IL, **Brown RI**, Latimer, AJ, Kucenas S. Glutamate signaling via the AMPAR subunit GluR4 regulates oligodendrocyte progenitor cell migration in the developing spinal cord. *The Journal of Neuroscience*. 41(25), 5353-5371 (2021).
- Martinez MF, Medrano S, **Brown RI**, Tufan T, Shang S, Bertoncello N, Guessoum O, Adli M, Belyea BC, Sequeira-Lopez MLS, Gomez, RA. Super-enhancers maintain renin-expressing cell identity and memory to preserve multisystem homeostasis. *The Journal of Clinical Investigation*. 128(11), 4787-4803 (2018).
- McMullen TP*, **Brown RI***, Ausrafuggaman N, Sahu A, Güler AD, Deppmann CD. GPCR signal transduction: evolution by gene duplication. *eLS*. Sept, 1-10 (2018).
- Atamian HS, Creux NM, **Brown RI**, Garner AG, Blackman BK, Harmer SL. Circadian regulation of sunflower heliotropism, floral orientation, and pollinator visits. *Science*. 353(6299), 587-590 (2016).
- Vandenbrink JP, **Brown RI**, Harmer SL, Blackman BK. Turning heads: the biology of solar tracking in sunflower. *Plant Science*. 224, 20-26 (2014).

GRANTS & HONORS

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| 2026 | Rapid Grant, Wikimedia Foundation Community Fund
<i>"Preserving trans art together: Wikipedian in Residence with the Trans Music Archive"</i> (G-RF-2510-20927) |
| 2025 | Invited Guest at WikiCredCon, The Credibility Coalition & Internet Archive |
| 2024 | Travel Award, WikiConference North America |
| 2022 – 2023 | Dissertation Year Fellowship, Jefferson Scholars Foundation |
| 2022 | SDB Travel Award, Society for Developmental Biology |
| 2022 | Britt Travel Award, UVA Biology |
| 2022 | PFN Travel Award, UVA Program in Fundamental Neuroscience |
| 2019 | Distinguished Graduate Mentoring Award, UVA Biology |
| 2019 | Joint Research and Research Meeting Grant, Japan National Institute of Genetics
<i>"Identification of a highly selective marker for satellite glial cells in zebrafish"</i>
(NIG-JOINT Grant 56A2019) |
| 2013 | Harrison Undergraduate Research Award, UVA College of Arts & Sciences |

TEACHING EXPERIENCE

Doctoral Teaching Assistant, University of Virginia

- 2023 – 2024** Cell Biology
- 2018 – 2019** Human Anatomy & Physiology II

Guest Lecturer & Facilitator, Charlottesville High School

- 2022 – 2024** Science + Art Collaboration

Guest Lecturer, University of Virginia

- 2022 – 2024** Editing Genes and Genomes
- 2022** Professional Skills for the Life Sciences I

INVITED TALKS

- 2026** Wiki Loves Pride, **Wikimedia LGBT+**
 "Getting Started with Wikidata: Editing Queer Knowledge"
- 2024** Huskey Graduate Research Exhibition, **UVA Graduate Student Council**
 "Fishing for clues in nerve regeneration: Satellite glial cells inhibit sensory neuron repair following central branch axotomy of dorsal root ganglia"
- 2023** Neuroscience Meetings for Extramural Emerging Talents (NeuroMEETS) seminar, **Max Planck Florida Institute for Neuroscience**
 "Glial modulation of repair: the zebrafish dorsal root ganglion as a model for peripheral nervous system regeneration"
- 2023** Fellows Symposium Series, **Jefferson Scholars Foundation**
 "Sats, Hats, Caps, and Wraps: Fishing for clues in vertebrate regeneration"

CONFERENCE ACTIVITIES

- Brown RI.** Preserving queer culture: aspirations in archiving trans art and artists. Oral presentation at: *Queering Wikipedia Conference*. Virtual (2025).
- Brown RI & Burns A.** Queer Past, Presents, and Futures: The Role of Wikipedia in LGBTQ+ Narratives. Oral presentation at: *WikiConference North America*. New York, NY, USA (2025).
- Rasberry L & **Brown RI.** Introduction to Wikidata. Oral presentation at: *PyData Virginia*. Charlottesville, VA, USA (2025).
- Brown RI.** Wikidata profiling of small town art. Oral presentation at: *WikiConference North America*. Indianapolis, IN, USA (2024).
- Brown RI & Kucenas S.** Peripheral glia inhibit sensory nerve regeneration following central branch axotomy. Poster presentation at: *XVI European Meeting on Glial Cells in Health and Disease*. Berlin, DEU (2023).
- Brown RI & Kucenas S.** Characterization of the role of satellite glia in peripheral nerve regeneration. Poster presentation at: *Joint Society for Developmental Biology - Pan-American Society for Evolutionary Developmental Biology (SDB-PASEDB) Meeting*. Vancouver, CAN (2022).

Watanabe H, Martini A, **Brown RI**, Arend LJ, Medrano S, Narita I, Sequeira ML, Gomez RA. Long-term Suppression Of The Renin-angiotensin System Leads To Concentric Arteriolar Hypertrophy By Activation of Renin Cells. Poster presentation at: *American Heart Association's Hypertension Scientific Sessions*. Virtual (2021).

Brown RI, Hefner V, Kucenas S. The role of satellite glia intercellular communication in somatosensory development and dysfunction. Poster presentation at: *Glia in Health & Disease*. Virtual (2020).

Brown RI, Oka M, Martinez MF, Medrano S, Gomez RA. The Molecular Program of Renin^{Null} Cells. Oral and poster presentation at: *American Heart Association's Hypertension Scientific Sessions*. San Francisco, CA, USA (2017).

Arbeit M, Beautin L, **Brown RI**, Gonzales D. Navigating social justice work and academia. Panel discussion at: *Diversifying Scholarship*. Charlottesville, VA, USA (2017).

Medrano S, **Brown RI**, Martinez MF, Sequeira-Lopez MLS, Gomez RA. Use of a CRISPR/Cas9 System for Specification of the Renin Cell Phenotype. Poster presentation at: *American Heart Association's Council on Hypertension Scientific Sessions*. Orlando, FL, USA (2016).

COMMUNITY & SERVICE

2025 – Present	Volunteer, Virginia Festival of the Book
2025 – Present	Facilitator & Volunteer, The Women's Initiative
2025	Volunteer, Charlottesville Lady Arm Wrestlers (CLAW)
2024	Regional Reader, Jefferson Scholars Foundation scholarship competition
2024	Volunteer, Friendly Space Team at WikiConference North America
2022 – 2024	Peer Reviewer, Cell Reports & eLife scientific journals
2022 – 2023	Community Ambassador, eLife Science Publications Ltd
2022 – Present	Organizer, Chinchilla Café queer community center
2022	Research Facilitator, Zebrafish Development & Genetics course at Marine Biological Laboratory
2022	Organizer, Community meetups at Joint SDB-PASEDB Meeting
2021	Volunteer, Community Science Booth with UVA Biology Outreach and Inclusion Program (BOIP)
2021	Technical Reporter, International Zebrafish Society News Splash
2019 – 2021	Steering Committee, United Campus Workers of Virginia (UCWVA)
2019 – 2020	Co-Chair, UVA Graduate Recruitment Initiative Team (GRIT)
2019 – 2020	Microscopy Assistant, UVA W.M. Keck Center Workshop on FLIM and FRET
2018 – 2024	Scientific Mentor, Kucenas Lab
2013	HooS-STER Mentor, UVA High School Science Technology and Engineering Research Program