Robin Isadora Brown, Ph.D.

Curriculum Vitae, October 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 – 2014 **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

2026	Rapid Grant, **Wikimedia Foundation Community Fund** *"Preserving trans art together: Wikipedian in Residence with the Trans Music Archive"* (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** *"Identification of a highly selective marker for satellite glial cells in zebrafish"* (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 Webinar, FORCE11
"Metadata for All with Wikidata"

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

Dorothy H, **Brown RI**, Rasberry L. Wikidata for Metadata Curation. Oral presentation and panel discussion at: *eLabs Conference.* Charlottesville, VA, USA (2026).

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 Pasts, 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

2026	Guest Speaker, Gender-Affirming Voice Therapy group at **Rochester Institute of Technology**
2025 – Present	Volunteer, **Virginia Festival of the Book**
2025 – Present	Facilitator & Volunteer, **The Women's Initiative**
2025 – Present	Executive Board, **Queer Therapy Fund (QTF)**
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