**Christine Charvet-Curriculum vitae**

Department of Anatomy, Pharmacology and Physiology [www.charvetlab.com](http://www.charvetlab.com)

College of Veterinary Medicine charvetcj@gmail.com

111 Greene Hall

Auburn University

Auburn, AL, 36849

 **EDUCATION**

University of California, Irvine (UCI)

 Department of Neurobiology and Behavior

 Ph.D. Biological Sciences, 2010.

 University of California, Los Angeles (UCLA)

 B.A. Psychology, 2005, Cum Laude.

 Santa Monica College (SMC)

 2000-2003, Scholars Program.

 **POSITIONS**

**2022-Present:** Assistant Professor (tenure-track), Department of Anatomy, Physiology and Pharmacology, College of Veterinary Medicine, Auburn University.

**2018-2021:** Assistant Professor (tenure-track), Center for Neuroscience and Department of

 Psychology, Delaware State University.

*I was an NIH COBRE-funded investigator. I participated in the growth of research and educational NIH and NSF funded programs designed to engage undergraduate and graduate students in science.*

**2016-2018:** Postdoctoral & Research Associate, Department of Molecular Biology and Genetics & Biomedical Sciences, Cornell University.

*I trained in statistical genetics at Cornell University. I gained computational skills with the programming language R.*

**2014-2016:** Postdoctoral Scientist, Boston Children’s Hospital, Martinos Center, Harvard Medical School & The George Washington University*.*

*I trained in neuroimaging and studied the neurobiology of primate brains.*

**2010-2014:** Postdoctoral Fellow, Department of Psychology, Cornell University.

*We developed a model to find corresponding ages across humans and model systems (www.translatingtime.org).*

**2005-2010:** Graduate Student Researcher, Department of Neurobiology and Behavior, University of California, Irvine.

 **PUBLICATIONS**

1. **Charvet CJ,** de Sousa A, Vassilpoulos**.** 2025. Translating Time: challenges, progress, and

future directions. ***Brain Research Bulletin***. In Press.

2. Cottam NC\*, Ofori K\*, Bryant M\*, Rogge JR, Hekmatyar K, Sun J, **Charvet CJ.** 2024. From

[circuits to](https://scholar.google.com/scholar?oi=bibs&cluster=3264802349812437471&btnI=1&hl=en) lifespan: translating mouse and human timelines with neuroimaging based tractography. bioRxiv. 07.28.605528. doi: 10.1101/2024.07.28.605528. \* Modified version is accepted in the ***Journal of Neuroscience***. In Press.

3. Cusack R, Ranzato MA, **Charvet CJ**. Helpless infants are learning a foundation model.

***Trends in Cognitive Sciences***. S1364-6613.\*\* Press release, Trinity College, Ireland.

4. **Charvet CJ.** 2024. Comparative neuroscience. In: Kirby ED, Glenn MJ, Sandstrom NJ,

Williams CL, eds. ***Introduction to Behavioral Neuroscience***, 1e. Houston, TX: OpenStax.\* This is an open access textbook in neuroscience.\*\* Press release, Ohio State University.

5. Amunts K, Axer, M, Bitsch L, Bjaalie J, Brovelli A, Calarco N, Caspers S, Cichon S, Cools

R, Costantini I, **Charvet CJ**, D'Angelo EU, De Bonis G, Deco PBG, DeFelipe J,

Destexhe A, Dickscheid T, Diesmann M, Duqué J, Düzel E, Eickhoff SB, Eke D, Engel AK, Evans A, Kashyap S, Evers K, Fousek J, Friederici AD, Friston K, Furber S, Goebel R, Güntürkün O, de Kerchove d’Exaerde A, Kotalesk JHi, Koren I, Krsnik Z, Hilgetag CC, Herold C, Hölter SM, Ioannidis Y, Jirsa K, Klijn W, Kämpfer J, Klüver Lars, Knoll AC, Larkum ME, Line ML, Lippert T, Magielse N, Maquet P, Letizia A, Mascaro A, Martinez SC, Marinazzo D, Meyer-Lindenberg A, Migliore M, Michael J, More Y, Morin FO, Muckli L, Nagels G, Oden L, Panagiotaropoulos F, Paolucci PS, Pennartz C, Peeters LM, Pezzulo G, Petkoski S, Petkov N, Petro LS, Petrovici MA, Roelfsema P, Ris L, Ritter P, Rockland K, Rotter S, Rowald A, Ruland S, Ryvlin P, Salles A, Sanchez-Vives MV, de Sousa AA, Johannes SJ, Ströckens F, Thirion B, Vanni Sacha S, van Albada J, Uludağ K, Wim V, Vanduffel, De Vos W, Vezoli J, Vincenz-Donnelly L, Walter F, Zaborszky L. 2024. The coming of a decade of digital brain research: a vision for neuroscience at the intersection of technology and computing. ***Imaging Neuroscience***. I2 1–35. doi: <https://doi.org/10.1162/imag_a_00137>. \*\* Press release from Ebrains

6. **Charvet CJ**, Mohamedelhassan R\*, Bryant M\*, Lee T\*. 2024. How old am I in chimpanzee

years? ***Frontiers for Young Minds*.** 12:1185773.

7. **Charvet CJ,** Ofori K\*, Falcone C, Dames BAR\*. 2023. Transcription, structure, and

organoids translate time across the lifespan of humans and great apes. ***PNAS Nexus****.* 2: pgad230.

8.de Sousa AA, Rigby Dames BA\*, Graff E, Mohamedelhassan R\*, Vassilopoulos T, **Charvet**

**CJ.** 2023. Going beyond established model systems of Alzheimer’s disease: companion animals provide novel insights into the neurobiology of aging. ***Communications Biology.*** 6(1):655.

9. Cottam NC\*, Bamfo T, Harrington MA, **Charvet CJ**, Tulin N, Hekmatyar K, Sun, J. 2023.

Cerebellar structural, astrocytes, and neuronal defects in a mouse model of spinal muscular atrophy. ***Brain Pathology*.** *e13162.*

10. de Sousa AA, Calvey T, Beaudet A, Bardo A, Benoit J, **Charvet CJ**, Dehay C,

Gómez-Robles A, Gunz P, Heuer K, van den Heuvel MP, Hurst S, Lauters P, Salagnon M, Sherwood CC, Ströckens F, Tawane M, Todorov OS, Toro R, Wei Y. 2023. From fossils to mind. ***Communications Biology****.* 6:636. \*\* Press release from New Medical Life Sciences

11. **Charvet CJ**. 2023. Mapping human brain pathways: challenges and opportunities in the

integration across scales. ***Brain, Behavior and Evolution*.** 98:194-209.

12. Rigby-Dames BA\*, KililiH, **Charvet CJ,** Díaz-Barba K, Michael J. Proulx, de Sousa AA,

Urrutia AO. 2023. Evolutionary and genomic perspectives of brain aging and neurodegenerative diseases. ***Progress in Brain Research.*** 275:165-215.

13. **Charvet CJ**, Ofori K\*, Baucum C\*, Sun J, Modrell M, Hekmatyar K, Edlow BL, van der

Kouwe, A. 2022. Tracing cortical circuits in humans and non-human primates from high resolution connectomic, transcriptomic, and temporal dimensions. ***Journal of Neuroscience*.** 42(18):3749-3767.\*\*Selected as high-impact research for Snapshot in Science, Massachusetts General Research Institute.

14. Ding, Q, Edwards, MM, Hulke ML, Bracci AN, Hu Y, Tong Y, Zhu X, Hsiao J, **Charvet CJ**,

Ghosh S, Handsaker RE, Eggan K, Merkle FT, Gerhardt J, Egli D, Clarke AG, Koren A. 2021. The Genetic Architecture of DNA Replication Timing in Human Pluripotent Stem Cells. ***Nature Communications***. 12:6746.

15. **Charvet CJ**. 2021. Cutting across structural and transcriptomic scales translates time across

the lifespan in humans and chimpanzees. ***Proceedings of the Royal Society Biological Sciences***. 288:20202987. \*\* News coverage in Academic Times.

16. Bonfanti L, **Charvet CJ**. 2021. Plasticity in humans and model systems: advances,

challenges, and future directions. ***International Journal of Molecular Sciences***. 22:9358.

17. Hendy JP\*, Takahashi E, van der Kouwe AJ, **Charvet CJ**. 2020. Brain wiring and

supragranular-enriched genes linked to protracted human frontal cortex development. ***Cerebral Corte*x**. 30: 5654–5666.

18. **Charvet CJ**. 2020. Closing the gap from transcription to the structural connectome enhances

the study of connections in the human brain. ***Developmental Dynamics****.* 249:1047-1061.\*\*Selected for the Cover.

19. **Charvet CJ**, Das A, Song JW, Tindal-Burgess DJ\*, Kabaria P, Dai G, Kane T, Takahashi E.

2020. High angular resolution diffusion MRI reveals conserved and deviant programs in the paths that guide human cortical circuitry. ***Cerebral Corte*x**. 30: 1447-1464.

20. **Charvet CJ**, Palani A, Kabaria P, Takahashi E. 2019. Evolution of brain connections:

integrating diffusion MR tractography with gene expression highlights increased cortico-cortical projections in primates. ***Cerebral Corte*x**. 17:5150-5165.

21. Vasung L\*, **Charvet CJ\***, Shiohama T, Gagoski B, Levman J, Takahashi E. 2019. *Ex vivo*

fetal brain MRI: recent advances, challenges, and future directions. ***Neuroimage*.** 195:23-37. \* These authors contributed equally.

22. **Charvet CJ**, Finlay BL. 2018. Comparing adult hippocampal neurogenesis across species:

Translating Time to Predict the Tempo in Humans. ***Frontiers in Neuroscience***. 12:706.

23. **Charvet CJ**, Šimić G, Kostović I, Kovačević V, Vukšić M, Babić LB, Takahashi E,

Sherwood CC, Wolfe MD, Finlay BL. 2017. Coevolution in the timing of GABAergic and pyramidal neuron maturation in primates. ***Proceedings of the Royal Society Biological Sciences***. 284:pii: 20171169.

24. **Charvet CJ**, Hof PR, Raghanti MA, Van Der Kouwe AJ, Sherwood CC, Takahashi E. 2017.

Combining diffusion magnetic resonance tractography with stereology highlights increased cross-cortical integration in primates. ***Journal of Comparative Neurology***. 525:1075-1093.

25. **Charvet CJ**, Cahalane DJ, Finlay BL. 2015. Systematic, cross-cortex variation in neuron

numbers in rodents and primates. ***Cerebral Cortex***. 25:147-60.

26. Cahalane DJ, **Charvet CJ**, Finlay BL. 2014. Modeling local and cross-species neuron

number variations in the cerebral cortex as arising from a common mechanism. ***Proceedings of the National Academy of Sciences USA***. 111:17642-7.

27. **Charvet CJ**, Finlay BL. 2014. Evo-devo and the primate isocortex: the central organizing

role of intrinsic gradients of neurogenesis. ***Brain, Behavior and Evolution***. 84:81-92.

28. Workman AD, **Charvet CJ**, Clancy B, Darlington RB, Finlay BL. 2013. Modeling

transformations of neurodevelopmental sequences across mammalian species. ***Journal of*  *Neuroscience***. 33:7368-83.\*\*Selected as a F1000 Prime Recommended Article.

29. **Charvet CJ**, Darlington RB, Finlay BL. 2013. Variation in human brains may facilitate

evolutionary change toward a limited range of phenotypes. ***Brain, Behavior and Evolution***. 81:74-85. \*

\* Commentary in: Vallender EJ. 2013. How brains are built: genetics and evolution. *Brain Behavior and Evolution*. 81:71-3.

30. Cahalane DJ, **Charvet CJ**, Finlay BL. 2012. Systematic, balancing gradients in neuron

density and number across the primate isocortex. ***Frontiers in Neuroanatomy***. 6:28.

31. **Charvet CJ**, Finlay BL. 2012. Embracing covariation in brain evolution: large brains,

extended development and flexible primate social systems. ***Progress in Brain Research****.*

195:71-87.

32. McGowan LD, Alaama RA, Freise AC, Huang JC, **Charvet CJ**, Striedter GF. 2012.

Expansion, folding, and abnormal lamination of the chick optic tectum after intraventricular injections of FGF2. ***Proceedings of the National Academy of Sciences USA***. 109 Suppl 1:10640-6.

33. **Charvet CJ**, Striedter GF, Finlay BL. 2011. Evo-devo and brain scaling: candidate

developmental mechanisms for variation and constancy in vertebrate brain evolution. ***Brain, Behavior and Evolution****.* 78:248-57.

34. **Charvet CJ**, Striedter GF. 2011. Developmental modes and developmental mechanisms can

channel brain evolution*.* ***Frontiers in Neuroanatomy***. 5:4.

35. **Charvet CJ**, Striedter GF. 2011. Causes and consequences of expanded subventricular

zones.***European Journal of Neuroscience***. 34:988-93.

36. **Charvet CJ**, Striedter GF. 2010. Bigger brains cycle faster before neurogenesis begins: a

comparison of brain development between chickens and bobwhite quail. ***Proceedings of the Royal Society Biological Sciences****.* 277:3469-75.

37. **Charvet CJ**, Sandoval AL, Striedter GF. 2010. Phylogenetic origins of early alterations in

 brain region proportions. ***Brain, Behavior and Evolution****.* 75:104-10.

38. **Charvet CJ**, Striedter GF. 2009. Developmental basis for telencephalon expansion in

 waterfowl: enlargement prior to neurogenesis. ***Proceedings of the Royal Society***

***Biological Sciences****.* 276:3421-27.

39. **Charvet CJ**, Owerkowicz T, Striedter GF. 2009. Phylogeny of the telencephalic

subventricular zone in sauropsids: evidence for the sequential evolution of pallial and subpallial subventricular zones. ***Brain, Behavior and Evolution****.* 73:285-294.

40. **Charvet CJ**, Striedter GF. 2009. Developmental origins of mosaic brain evolution:

morphometric analysis of the developing zebra finch brain. ***Journal of Comparative Neurology****.* 514:203-213.

41. Striedter GF, **Charvet CJ**. 2009. Telencephalon enlargement by the convergent evolution of

expanded subventricular zones. ***Biology Letters***. 5:134-137.

42. **Charvet CJ**, Striedter GF. 2008. Developmental species differences in brain cell cycle rates

 in the northern bobwhite quail (*Colinus virginianus*) and parakeets (*Melopsittacus*

*undulatus*): implications for mosaic brain evolution. ***Brain, Behavior and Evolution***. 72:295-306.

43. **Charvet CJ**, Striedter GF. 2008. Spatiotemporal clustering of cell death in the avian

 forebrain proliferative zone. ***International Journal of Developmental Biology****.* 52:345-

352.

44. Striedter GF, **Charvet CJ**. 2008. Developmental origins of species differences in

 telencephalon and tectum size: Morphometric comparisons between a parakeet

(*Melopsittacus undulatus*) and a quail (*Colinus virgianus*). ***Journal of Comparative Neurology***. 507:1663-1675.

\* Student trainees from my laboratory; \*Students from other laboratories.

 **OTHER PUBLICATIONS**

1. **Charvet CJ**. 2023. Changing the research culture: learning from experienced mentors. The Psychologist, Early Career Special Issue. ([Link](https://www.bps.org.uk/psychologist/learning-experienced-mentors))

2. digitaltrends & **Charvet Laboratory**. 2022. Students must know: undergraduate research

programs are available and valuable ([Link](https://www.digitaltrends.com/sponsored/charvet-laboratory/))

\* This content was produced as a partnership between digitaltrends and myself.

3. Harrington MA and **Charvet CJ**. 2022. [Expanding diversity in biomedical sciences at](https://neuronline.sfn.org/diversity/expanding-diversity-in-biomedical-sciences-at-historically-black-colleges)

[historically black colleges.](https://neuronline.sfn.org/diversity/expanding-diversity-in-biomedical-sciences-at-historically-black-colleges) Society for Neuroscience Diversity Highlights.

4. **Charvet CJ**, Sherwood CC, Takahashi E. 2017. Developmental sequences predict increased

connectivity in brain evolution: A comparative analysis of developmental timing, gene expression, neuron numbers, and diffusion MR tractography. In: ***Evolution of the Brain, Cognition, and Emotion in Vertebrates***. (eds S. Watanabe, M. Hofman, T Shimizu). Chapter 4. Brain Science. Springer, Tokyo.

5. **Charvet CJ**, Krienen FM. 2016. Developmental programs and gene expression patterns

yield insights into the evolution of primate cortical circuitry. In: ***Evolution of Nervous Systems***2nd edition. (eds L. Krubitzer and J. Kaas). pp.91-97. Elsevier. Academic Press, Oxford.

6. **Charvet CJ**, Finlay BL. 2016. Evolving the Developing Cortex. In: ***Developmental***

***Approaches to Human Evolution*** (eds J. C. Boughner and C. Rolian), John Wiley & Sons, Inc, Hoboken, NJ.

7. **Charvet CJ**, Cahalane DJ, Finlay BL. 2013. Systematic variation in cytoarchitectural

landscapes in the isocortex of primates and rodents. AAAI Technical Report FS-13-02.

 **FELLOWSHIPS AND GRANTS**

**Ongoing:**

**2023-2025:** Animal Health and Disease Research Funds, College of Veterinary Medicine,

Auburn University $50,000.

**2022-2025:** Co-Investigator-R15. NINDS. Principal investigator: Jianli Sun, Delaware State

 University. ~$30,000. Proposal scored in the top 4th percentile.

**Completed:**

**2021-2024:** Principal investigator-R21. NICHD,Co-PI: Emi Takahashi, Martinos Center for

Biomedical Imaging Boston Children’s ~275,000-direct costs. Proposal scored in the top 6th percentile. No-cost extension: 2024.

**2021-2024:** Co-Investigator, Targeted Infusion Project: Undergraduate Neuroscience

 Education To Engage Diverse Students in STEM and Prepare Them for Graduate School and STEM Careers. Principal Investigator: Murali Temburni, Delaware State University.

**2022-2023:** Principal Investigator; Scott Fund, Scott-Ritchey Research Center, Auburn University ~$13,000.

**2022-2023:** University of Washington Nathan Shock Center and Healthy Aging and

 Longevity Research Institute Pilot Award (max: $10,000 in direct costs; in kind).

**2022-2023:** USC-Buck Institute Nathan Shock Center Pilot Award (>$10,000 in direct costs;

 in kind).

**2022:** Digital Trends Honoree Awardee, Digital Trends ($50,000; in kind).

**2019-2021:** Principal Investigator-Delaware IDeA Network of Biomedical Research

 Excellence (INBRE) Research Independence Award, National Institute of Health, $157,924-direct costs.

**2011-2014:** Principal Investigator-Postdoctoral Fellowship Ruth L. Kirschstein National

Research Service Awards, National Institute of Child Health and Human Development, National Institute of Health, $143,670-direct costs.

**2009:** Principal Investigator- East-Asia and Pacific Summer Institutes (EAPSI) Graduate

 Fellowship, National Science Foundation, University of Auckland, New Zealand, $5,678.

**2008:** Principal Investigator- Graduate Research Grant, Humboldt University, DAAD

 (German Academic Exchange Services) Berlin, Germany ~$1,500.

 **INVITED TALKS**

**2025:**  Guest Speaker, National Kitten Veterinary Coalition Conference

**2024:** Evolution and Development of Nervous Systems, Zadar, Croatia.

**2024:** Comparative and Evolutionary Neuroscience conference, Seattle, WA.

**2024:** Alabama Advanced Imaging Consortium, Dadeville, AL.

**2023:** College Helveticum, ETH, Switzerland.

**2023:** College of Veterinary Medicine, Saint George’s University, Grenada.

**2023:** Comparative Brain Meeting, Institut Pasteur, Paris, France.

**2022:** Brain Connectivity Workshop, Düsseldorf, Germany.

**2021:** Department of Anatomy and Neurobiology, Boston University.

**2021:** Gradients of Brain Organization Workshop (Organization for Human Brain Mapping),

Organized by the Montreal Neurological Institute, Montreal, Canada.

**2020:** Montreal Neurological Institute, McGill University, Montreal, Canada.

**2019:** Department of Psychological and Brain Sciences, University of Delaware, Newark, DE.

**2019:** Nemours/Alfred I. duPont Hospital for Children, Newark, DE.

**2018:** The Teratology Society. Embryology and Development of the Central Nervous System Workshop. Clearwater, FL.

**2016**: Department of Human Genetics, Chicago University, Chicago, IL.

**2015:** Department of Psychology, Vanderbilt University, Nashville, TE.

**2014:** 83rd American Association of Physical Anthropologists. Alberta, Canada.

**2013:** Karger Workshop in Evolutionary Neuroscience. San Diego, CA.

 **SYMPOSIUMS, SEMINARS, AND PROGRAMS**

**2022:** Auburn University Brain Camp for high school students, Auburn University.

**2021:** Cells Webinar | Nervous System Development and Plasticity in ModelOrganisms III,

 Karlsruhe Institute of Technology, Germany.

**2020:** Department of Ecology and Evolution, Cornell University, NY.

**2020:** Department of Psychological and Brain Sciences, University of Delaware, Newark, DE.

**2019:** Department of Psychological and Brain Sciences. University of Delaware, Newark, DE.

**2017:** Department of Molecular Biology Genetics, Cornell University, Ithaca, NY.

**2016**: Department of Biomedical Sciences. Cornell University, Ithaca NY.

 **MENTORING EXPERIENCE IN BIOLOGY**

**2024:** Mentor, Research Independent Study, Idaho College of Osteopathic Medicine.

**2024:** Mentor, Summer research internship; Ecole Nationale Vétérinaire de Toulouse,

France.

**2023-2024:** Mentor, Undergraduate Research Fellowship, College of Veterinary Medicine,

Auburn University

**2022-:** Mentor, Undergraduate Research in Veterinary Biomedical Sciences, College of

Veterinary Medicine, Auburn University.

3 students (BS earned in 2024)

**2022:** Mentor, Veterinary Student Boehringer Ingelheim Summer scholars program,

College of Veterinary Medicine, Auburn University.

**2022-:** Mentor, PhD in Biomedical sciences, College of Veterinary Medicine, Auburn

University:

3 students

**2019-:** Mentor, PhD in Neuroscience, Department of Biology, Delaware State

University:

Kwadwo Ofori, PhD earned in 2024

Nicholas Cottam, PhD earned in 2024

Lindsey Ruggiero, PhD earned in 2022

**2019-2020:** Mentor, Bridges to Doctorate graduate program, Delaware State University.\*

**2020:** Mentor, IDeA Network of Biomedical Research Excellence program for

Undergraduate students, Delaware State University.\*

**2020:**  Mentor, Interdisciplinary studies, Undergraduate Practicum, Delaware State

University.

**2019:** Mentor, Summer Undergraduate Neuroscience Research Program, Department

of Biology, Delaware State University.\*

**2019:** Mentor, Psychology Undergraduate Practicum, Department of Psychology,

Delaware State University.

**2006:** Mentor**,** Bridges to Baccalaureate undergraduate program, University of California, Irvine.\*

\*These are initiatives to enhance diversity in biomedical fields.

 **COURSE DEVELOPMENT AND OUTREACH**

**2024-2025:** Paid writer, The Transmitter (magazine led by the Simons Foundation).

**2022-:** Co-directorVetaHumanz program at the Auburn College of Veterinary Medicine.

This initiative is targeted to stimulate interest in veterinary education among k-4

students. This initiative is funded by an NIH R25 award and is led by Dr. Sandra San Miguel (Purdue College of Veterinary Medicine); Subaward: $4,500.

**2021-2024:** Paid writer for an Open Access Introduction to Behavioral Neuroscience

textbook. This initiative is funded by an NSF EAGER award and is led by Dr. Elizabeth Kirby (Ohio State University).

**2018:** Workshop instructor, Workshop on the Embryology and Development of the Central Nervous System. The Teratology Society, Clearwater, FL.

 **TEACHING EXPERIENCE**

**2022-:** Course instructor, Team-taught Veterinary Neuroscience, College of Veterinary Medicine, Auburn University (two semesters).

**2022-:** Course instructor, Undergraduate research in biomedical sciences, College of

Veterinary Medicine, Auburn University (two semesters).

**2019-2020:** Course Instructor, Behavioral Neuroscience (*Neuropsychology*), Delaware State University (two semesters).

**2018-2021:** Course Instructor, Introduction to Psychology, Delaware State University (five semesters).

**2018:** Course Instructor, Health Psychology, Delaware State University.

**2015:** Guest lecturer, Evolution of the Human Brain, Center for the Advanced Study of Human Paleobiology, The George Washington University.

**2011:** Course Instructor, Introduction to Biopsychology, Cornell University.

**2010-2013:** Teaching Aid, Cognitive Neuroscience (graduate and undergraduate), Cornell University

**2008:** Teaching Assistant, Animal Behavior, School of Biological Sciences, UCI.

**2008:** Teaching Assistant, Auditory Neuroscience, School of Biological Sciences, UCI.

**2008:** Teaching Assistant, Organisms to Ecosystems, School of Biological Sciences, UCI.

**2006-2007:** Lab instructor, Neurobiology Laboratory course, School of Biological Sciences, UCI (two semesters).

**2005-2009:** Teaching Committee, Neurobiology Laboratory Course, School of Biological Sciences, UCI.

 **SCIENCE PRESENTATIONS**

**2024:** Phi Zeta Research Day, Auburn, AL.\*

**2024:** Comparative and evolutionary neuroscience conference, Seattle, WA.\*

**2024:** Zoological Association of America Annual Conference, Columbus, OH.\*

**2024:** Society for Neuroscience Annual Conference, Chicago, IL.

**2024:** Society for Developmental Cognitive Neuroscience, Baltimore, MD.

**2024:** Alabama Advanced Imaging Consortium, Dadeville, AL.\*

**2024:** Alzheimer Research UK National Conference, Liverpool, UK.\*

**2024:** Undergraduate Research Symposium, Auburn University, AL.\*

**2023:** Phi Zeta Research Day, College of Veterinary Medicine, Auburn University, AL.

**2023:** Auburn undergraduate research showcase, Auburn University, AL.

**2023:** UK and Research Dementia, UK.\*

**2023:** EvoKE, University of Bath, UK.\*

**2023:** Phi Zeta Research Day, College of Veterinary Medicine, Tuskegee, AL.\*

**2023:** Society for Neuroscience. Washington, DC.\*

**2023:** Auburn Student University Research symposium, Auburn AL.\*

**2023:** College of Science and Mathematics Research Poster Symposium, Auburn AL.\*

*Awarded best Student presentation.*

**2022:** Society for Neuroscience, San Diego, CA.\*

**2022:** Tools, Tech, and Theory: A Brain Initiative Alliance Social, San Diego, CA.\*

**2022:** Organization for Human Brain Mapping-Virtual.

**2022:** Society for the Study of Evolution-Virtual.

**2021:** South African Neuroscience Society-Virtual.\*

**2021:** The Society for Neuroscience Conference-Virtual.\*

**2021:** The JB Johnston Club for Evolutionary Neuroscience -Virtual.\*

**2021:** International Society for Developmental Neuroscience -Virtual.

**2021:** Experimental Biology -Virtual. *Abstract selected for media coverage*

**2021:** Comparative Cognition Society, Virtual.

**2021:** Annual Delaware Neuroscience Symposium, Virtual.\*

**2020:** Neuromatch 3.0 conference -Virtual.

**2020:** “Black in Neuro” Mini-conference -Virtual.\*

**2020:** J.B. Johnston Club for Evolutionary Neuroscience -Virtual.

**2020:** Neurogenetics virtual conference, Nature Conferences -Virtual.

**2020:** American Society for Human Genetics -Virtual.\*

**2020:** European Society for Study of Human Evolution -Podium talk -Virtual.

**2020:** The Allied Genetics Conference -Virtual.

**2020:** International Society for Computational Biology -Virtual.

**2020:** Annual International Spinal Muscular Atrophy Research and Clinical Care -Virtual.

**2020:** Emerging Researchers National Conference in STEM. Washington, DC.\*

**2019:** Annual Delaware Neuroscience Symposium. Newark, DE.\*

**2019:** American Society for Human Genetics Conference. Houston, TX.

**2019:** J.B. Johnston Club for Evolutionary Neuroscience. Chicago, IL.

**2019:** Evolution in Philadelphia Conference. Philadelphia, PA.\*

**2019:** Anatomische Gesellschaft, Würzburg, Germany.

**2019:** American Association of Physical Anthropologists. Cleveland, OH.

**2018:** Annual Delaware Neuroscience Symposium. Newark, DE.\*

**2018:** Mid-Atlantic Society for Developmental Biology Regional Meeting. Charlottesville, VA

**2018:** American Society for Human Genetics Conference. San Diego, CA.

**2017:** Three Rivers Evolution. Pittsburgh, PA.

**2017:** Eukaryotic DNA replication & Genome Maintenance. Cold Springs Harbor, NY.

**2016:** American Society of Primatologists. Chicago, Il.

**2016:** American Association of Physical Anthropologists. Atlanta, GA.

**2015:** Society for Neuroscience Conference. Chicago, IL.

**2014:** J.B. Johnston Club for Evolutionary Neuroscience. Washington, DC.

**2014:** Society for Neuroscience Conference. Washington, DC.

**2013:** American Association of Artificial Intelligence Fall Symposium. Washington, DC.

**2013:** Canada-Israel Symposium on Brain Plasticity. London, Canada.

**2013:** Society for Neuroscience Conference. San Diego, CA.

**2013:** American Association of Anatomists Conference. Boston, MA.

**2012:** Society for Neuroscience Conference. New Orleans, LA.

**2011:** Society for Neuroscience Conference. Washington, DC.

**2011:** J.B. Johnston Club for Evolutionary Neuroscience. Washington, DC.

**2010:** European Conference on Comparative Neurobiology. Valencia, Spain.

**2009:** J.B. Johnston Club for Evolutionary Neuroscience. Chicago, IL.

**2009:** Society for Neuroscience Conference. Chicago, IL.

**2009:** International Australasian Winter Conference. Queenstown, New Zealand.

**2009:** Society for Integrative and Comparative Biology Conference. Boston, MA.

**2008:** Society for Neuroscience Conference. Washington, DC.

**2007:** Society for Neuroscience Conference. San Diego, CA.

**2007:** International Society for the History of Neurosciences. Los Angeles, CA.

**2006:** Santa Cruz Conference for Developmental Biology. Santa Cruz, CA.0

\* Presentations from graduate and undergraduate students.

 **AWARDS AND HONORS**

**2010:** Graduate Fellowship Award for outstanding PhD thesis, UCI.

**2010:** John Merck, Summer Institute Fund for the Biology of Developmental

 Disabilities, Cornell University.

**2009:** Fine Science Travel Award, UCI.

**2008:** Ralph Waldo Gerard Award, Department of Neurobiology and Behavior, UCI.

**2006-2009:** Dean’s Travel Award, University of California, Irvine.

**2005:** Vice Provost’s Recognition Award, School of Biological Sciences, UCLA.

**2004-2005:** Dean’s Honor List, UCLA.

**2003-2005:** Provost’s Honor List, UCLA.

**2000-2003:** Dean’s Honor List, Santa Monica College.

 **ACADEMIC SERVICE**

**2022-2024:** Co-chair of the Diversity, equity, and inclusion Committee; College of Veterinary Medicine, Auburn University.

**2022-:** Public Education and Community Committee, Society for Neuroscience.

**2021:** IACUC committee member; Delaware State University.

**2021:** Faculty Senate committee, Delaware State University.

**2021-:** Brain, Behavior, and Evolution Editorial Board Member

**2010-:** Reviewer for: Behavioral and Brain Sciences; Brain, Behavior, and Evolution;

Brain Research; European Journal of Neuroscience; Folia Primatologica; Frontiers in Developmental Psychology; Frontiers in Human Neuroscience; Frontiers in Neuroanatomy; Genes, Brain and Behavior; Glia; Honors thesis program at Cornell University; International Journal of Developmental Neuroscience; Journal of Comparative Neurology; Journal of Neuroscience; Leakey Foundation; National Science Foundation, Nature Ecology and Evolution; Nature Neuroscience; Neurobiology of Diseases; PhD qualifying exams, Delaware State University; PLOS Biology; PLOS Computational Biology, Sigma Xi; Trends in Cognitive Sciences, Scientific Reports; Zoology.

Consultant for popular news: Science News, Scientific American.

**2013-:**  Curator of a website ([www.translatingtime.org](http://www.translatingtime.org)) that enables researchers to find

equivalent developmental time points across species.

 **OUR WORK IN THE NEWS**

**2024:** Cat brains age like ours - and could help scientists understand cognitive aging. By Heidi Ledford. **Nature.** [Link](https://www.nature.com/articles/d41586-024-03492-1#:~:text=By%20the%20age%20of%2015,in%20older%20humans%2C%20says%20Charvet.)

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**2021:** Brain development is surprisingly similar between humans and other primates.

By: **Experimental Biology.** [Link](https://phys.org/news/2021-04-brain-surprisingly-similar-humans-primates.html)