

Christopher J. Schell

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 University of California, Berkeley
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EDUCATION

- PhD University of Chicago
 Committee on Evolutionary Biology December 2015
 Differential and long-term impacts of biparental effects on offspring personality and hormones in coyotes
 (*Canis latrans*)
 Rachel M. Santymire (co-chair), Jill M. Mateo (co-chair), Elizabeth V. Lonsdorf, Trevor Price, Bruce
 Patterson
- B.A. Columbia University
 Department of Psychology/Ecology, Evolution, and Environmental Biology May 2009
 Kin recognition, selection, and personality in zebra finches (*Taenopygia guttata*)
 Sarah Woolley (main advisor), Carl Hart (major advisor)

PROFESSIONAL HISTORY

- Assistant Professor, University of California, Berkeley 2021-Present
 Assistant Professor, Urban Ecology. University of Washington Tacoma 2018-2021
 Postdoctoral Researcher. Colorado State University/National Wildlife Research Center 2015-2018
 Graduate Research Assistant. Lincoln Park Zoo 2009-2015
 Graduate Research Assistant. National Wildlife Research Center 2009-2015
 Undergraduate lab associate. Columbia University 2007-2009

GRANTS

Current

Dear Colleague Letter – LTER (NSF). Multifaceted mechanisms of metropolis: Integrating society, ecology, evolution, and plasticity to advance urban evolutionary ecology. Principal Investigator: Kevin McGraw. Co-Principal Investigator: J. Chad Johnson, Paige Warren, Sarah Diamond, and **Christopher J. Schell**; Total Award Amount: \$99,999

Past

- Royalty Research Fund (UW-system wide).** The hunger games: Food, fear, and the integrative mechanisms driving risk-taking in coyotes. Principal Investigator: Christopher J. Schell; Total Award Amount: \$39,473.
- EarthLab Innovation Grants Program (UW-system wide).** Voices unbound: Amplifying perspectives of disenfranchised communities to provoke environmental change. Principal Investigator: **Christopher J. Schell**; co-Principal Investigator: Robin A. Evans-Agnew; Start Date: 05/01/2019; Total Award Amount: \$49,987.
- Collaborative Publicly Engaged Scholarship (CPES) fund (UW Tacoma).** Lights, Cameras, Action: Using wildlife cameras to assess how artificial light at night influences mammalian communities in cities. Principal Investigator: Christopher J. Schell; Start Date: 01/01/2019; Total Award Amount: \$5,000.
- National Science Foundation, Broadening Participation Fellowship.** Quantifying the impact of urbanization on temperament, hormonal stress, and genetic variation in urban coyote populations (*Canis latrans*). Principal Investigator: **Christopher J. Schell**; Start Date: 09/01/2015; Total Award Amount: \$207,000.

Genetics Society of America. Genomics of Adaptation to Human Contexts. (symposium). Kathryn Turner (lead organizer), Brook Moyers (co-organizer), and **Christopher J. Schell** (co-organizer). Start Date: 01/01/2016; Total Award Amount: \$2,000.

UNCF Merck Graduate Science Research Dissertation Fellowship. Developmental experience and its significance in predicting adult temperament in the coyote. Principal Investigator: **Christopher J. Schell**; Start Date: 06/01/2014. Total Award Amount: \$56,000.

Graduate Assistance in Areas of National Need (GAANN) Fellowship, University of Chicago. Parental effects in coyotes (*Canis latrans*). Principal Investigator: **Christopher J. Schell**; Start Date: 09/28/2012; Total Award Amount: \$46,000.

National Science Foundation, Graduate Research Fellowship Program (GRFP). Comparative behavioral ecology of Canidae. Principal Investigator: **Christopher J. Schell**; Start Date: 09/30/2009; Total Award Amount: \$126,000.

AWARDS

National Science Foundation (NSF) Broadening Participation Award. Postdoctoral award to investigate the endocrine and genetic underpinnings of boldness in urban coyotes in the Denver metropolitan area. Colorado State University and the National Wildlife Research Center were the acting sponsors and served as dual research hubs for the award. Primary mentors: Stewart W. Breck, Lisa M. Angeloni. Awarded Spring 2015.

UNCF-MERCK Graduate Fellow. PhD candidacy award to support graduate work investigating the influence of developmental experiences on coyote risk-taking and fearlessness. The University of Chicago served as the acting sponsor. Primary advisors: Rachel M. Santymire and Jill M. Mateo. Awarded Spring 2013.

NSF Graduate Research Fellowship Program (GRFP). External award to pursue graduate research and studies in ecology and evolution at the University of Chicago. Primary advisors: Rachel M. Santymire and Jill M. Mateo. Awarded Spring 2009.

McNair Research Fellow. Undergraduate research fellowship awarded to pursue research in the biological and psychological sciences at Columbia University (New York, NY). Primary advisor: Sarah Woolley. Awarded Spring 2007

PUBLICATIONS

Published

Magle, S.B., Fidino, M., Sander, H., Rohnke, A., et al. (**Schell CJ senior author***) (2021). Wealth and urbanization shape medium and large terrestrial mammal communities. *Global Change Biology*. <https://onlinelibrary.wiley.com/doi/10.1111/gcb.15800>.

Fidino, M., Gallo, T., Lehrer, E.W., Murray, M.H., Kay, C.A.M., Sander, H.A., et al. (2021). Landscape-scale differences among cities alter common species' responses to urbanization. *Ecological Applications*. <https://onlinelibrary.wiley.com/doi/10.1002/eap.2253>.

Schell CJ, Stanton LA, Young JK, Angeloni LA, Breck SW, Murray MH. 2021. The evolutionary consequences of human-wildlife conflict. *Evolutionary Applications*. <https://onlinelibrary.wiley.com/doi/10.1111/eva.13131>.

Sealey BA; Beasley D; Halsey D; **Schell CJ**; Leggett Z; Yitbarek S; Harris NC. 2020. Human Dimensions: Raising Black Excellence by elevating Black ecologists through collaboration, celebration, and promotion: *Bulletin of the Ecological Society of America*. 101:1-6. <https://onlinelibrary.wiley.com/doi/10.1002/bes2.1765>

Schell CJ, Dyson K, Fuentes T, Des Roches S, Harris NC, Miller DS, Woefle-Erskine CA, Lambert M. The ecological and evolutionary consequences of systemic racism in urban environments. *Science*. 369:eaay4497. <https://www.sciencemag.org/lookup/doi/10.1126/science.aay4497>

Schell CJ, Guy C, Shelton D, Campbell-Staton S, Sealey BA, Lee DN, Harris NC. 2020. Recreating Wakanda by promoting Black excellence in ecology and evolution. *Nature Ecology and Evolution*. 4: 1285-1287. <http://dx.doi.org/10.1038/s41559-020-1266-7>.

- Alberti M, Palkovacs E, Des Roches S, De Meester L, Brans K, Govaert L, Grimm N, Harris N, Hendry A, **Schell CJ**, Szulkin M, Munshi-South J, Urban M, Verrelli B. 2020. The complexity of urban eco-evolutionary dynamics. *Bioscience*. 70: 772-793. <https://academic.oup.com/bioscience/article/70/9/772/5893672>
- Des Roches S, Brans K, Lambert MR, Rivkin RL, Savage AM, **Schell CJ (11 additional co-authors)**. 2020. Socio-Eco-Evolutionary Dynamics in Cities. *Evolutionary Applications*. <https://doi.org/10.1111/eva.13065>
- Schell CJ**. 2020. Investigating the genetic and environmental architecture of interpack aggression in North American grey wolves. *Molecular Ecology*. 29: 1757-1760. <https://onlinelibrary.wiley.com/doi/abs/10.1111/mec.15453>
- Magle SB (19 co-authors) 2019. Advancing urban wildlife research through a multi-city collaboration. *Frontiers in Ecology and the Environment*. 17:232-239. <https://doi.org/10.1002/fee.2030>
- Schell CJ**, Young JK, Lonsdorf EV, Santymire RM, Mateo JM. 2018. Parental habituation to human disturbance over time reduces fear of humans in coyote offspring. *Ecology and Evolution*. 8: 12965-129280. <https://onlinelibrary.wiley.com/doi/abs/10.1002/ece3.4741>.
- Turner KG, **Schell CJ**, Moyers BT. 2018. Genomics of Adaptation to Human Contexts. *Journal of Heredity*. 109: 101-102. <https://doi.org/10.1093/jhered/esx113>.
- Schell CJ**, Young JK, Lonsdorf EV., Mateo JM, Santymire RM. 2018. It takes two: Evidence for reduced sexual conflict over parental care in a biparental canid. *Journal of Mammalogy*. 99: 75-88. <https://doi.org/10.1093/jmammal/gyx150>
- Schell CJ**. 2018. Urban evolutionary ecology and the potential benefits of implementing genomics. *Journal of Heredity*. 109: 138-151. <https://doi.org/10.1093/jhered/esy001>
- Schell CJ**, Young JK, Lonsdorf EV., Mateo JM, Santymire RM. 2017. Investigation of techniques to measure cortisol and testosterone concentrations in coyote hair. *Zoo Biology*. 36: 220-225. <http://doi.wiley.com/10.1002/zoo.21359>
- Greggor AL et al. (19 co-authors) 2016. Prioritising animal behaviour research to increase conservation efficacy. *Trends in Ecology and Evolution*. 31:953-964. <https://doi.org/10.1016/j.tree.2016.09.001>
- Schell CJ**, Young JK, Lonsdorf EV., Mateo JM, Santymire RM. 2016. Olfactory attractants and parity affect prenatal androgens and territoriality of coyote breeding pairs. *Physiology and Behavior*. 165:43–54. <https://doi.org/10.1016/j.physbeh.2016.06.038>
- Schell CJ**. 2015. Differential and long-term impacts of biparental effects on offspring personality and hormones in coyotes (*Canis latrans*). Dissertation, University of Chicago. <http://search.proquest.com/docview/1749772501>.
- Schell CJ**, Young JK, Lonsdorf EV., Santymire RM. 2013. Anthropogenic and physiologically induced stress responses in captive coyotes. *Journal of Mammalogy*. 94:1131–1140. <https://doi.org/10.1644/13-MAMM-A-001.1>

Digital media (blogpost, editorials, etc.)

- Schell CJ**. Ecosystems and energy lay bare the essence of justice. Bugs and Beast Before the Law. <https://bambitchell.henryart.org/is-justice-a-process-or-an-outcome/christopher-schell/>.
- Schell CJ**. The Human Side of Urban Evolution: Integrating Identity and Community with Research. Life in the City: Urban Evolution Blog. <https://urbanevolution-litc.com/2018/11/19/the-human-side-of-urban-evolution-integrating-identity-and-community-with-research/>

PRESENTATIONS

Conference proceedings (contributed talks, CT; invited symposia, S; and plenary/keynote talks, PK)

- Schell CJ** (2021). Coyotes, conflict, and cities: The role of social heterogeneity in shaping coyote behavior. The 2021 Animal Behavior Society. (S)
- Schell CJ**, Magle S, Fidino M, Lehrer L, Gallo T. (2020). Wildlife spatial and temporal responses to human activity during the COVID-19 pandemic. The Wildlife Society (TWS) 2020 Annual Conference. (S)
- Schell CJ**, Terrell K, Tonietto R, Lambert M, Katti M, Watts S, Perkins D, Greenlaw S, Heza M, Young T. (2020). A New Paradigm of 'High Impact' Research: Why Conservation Science Needs to Prioritize Racial and Social Justice. North American Congress for Conservation Biology (Video can be found here: <https://www.youtube.com/watch?v=Mfdzm1EfwVM&feature=youtu.be>) (PK)

- Schell CJ**, Mccaffery RM, Johnson HE, Wilson S, Artelle K, Moody J (2020). From the urban to the wild: building a future for human-carnivore coexistence in North America. North American Congress for Conservation Biology (NACCB). <http://scbnorthamerica.org/index.php/tuesday-july-28-plenary/> (PK)
- Schell CJ** (2020). Where the wild things are: Urban wildlife as bioindicators of structural racism, environmental health, and justice. 2020 Environmental Justice Conference, "Developing Capacity through Collaborative Action". University of Washington, College of the Environment. Seattle, WA (digital) (PK)
- Schell CJ** (2020). Parks and equity: urban conservation, sustainability, and justice. Puget Sound Green Infrastructure Series Closing Keynote, Tacoma, WA (digital) (PK)
- Schell CJ** (2019). Follow the food: Ecological, Evolutionary, and Social Implications of Anthropogenic Food Subsidies in Cities. CAP-LTER Food, Heat, and Water Workshop, Tempe, AZ. (S)
- Schell CJ** (2019). Environmental Justice Roundtable. Urban Wildlife Information Network (UWIN) Summit, Chicago, IL (S).
- Schell CJ**, Gallo T, Lehrer EW (2019). Emerging Themes in Urban Wildlife Ecology: Updates from the 2019 International Urban Wildlife Conference. The Wildlife Society & American Fisheries Society 2019 Joint Annual Conference. Reno, NV. (S)
- Schell CJ**, Murray MH, St. Clair CC, Poessel SA, Angeloni LM, Breck SW (2019). Making Movement Personality: Inferring Personality Traits from GPS Tracking Data of Coyotes. 56th annual Animal Behavior Society (ABS) Conference. Chicago, IL. (CT)
- Schell CJ**, Murray MH, St. Clair CC, Poessel SA, Angeloni LM, Breck SW (2019). Making Movement Personality: Inferring Personality Traits from GPS Tracking Data of Urban Coyotes. 99th annual American Society of Mammalogists (ASM) Conference. Washington, D.C. (S)
- Schell CJ** (2019). It's All Connected: Wildlife, People, and the Intersectionality of Socio-Environmental Systems. International Urban Wildlife Conference (IUWC). Portland, OR. (P)
- Schell CJ**, Gallo T, Breck SW, Harris I, Slage A, Chen Z, Angeloni LA (2019). Staying connected: Do artificial corridors in cities positively impact urban carnivore occurrence? International Urban Wildlife Conference (IUWC). Portland, OR. (S)
- Schell CJ**, Young JK, Lonsdorf EV, Santymire RM, Mateo JM. (2018). Parental programming in coyotes: Experienced parents bolster pup boldness in anthropogenic contexts. 17th International Society of Behavioral Ecologists (ISBE) Conference, Minneapolis, MN. (CT)
- Schell CJ**, Breck SW, Angeloni LM. (2016). Landscape Heterogeneity and the Potential for Microgeographic Adaptation in Urban Ecosystems". Guild of Rocky Mountain Ecologists and Evolutionary Biologists (GREEBs) conference, Gothic, CO. (CT)
- Schell CJ**. (2016). Epigenetic Expansion: Conceptualizing Coyote Plasticity as a Consequence of Parental Programming". Genomics of Adaptation to Human Contexts. Fort Collins, CO. (CT)
- Schell CJ**, Young JK, Lonsdorf EV, Santymire RM, Mateo JM. (2016). Experience breeds competitors: Parity positively affects litter sizes, boldness, and hormones in coyote pups". The 96th American Society of Mammalogists (ASM) conference. Minneapolis, MN. (CT)
- Schell CJ**, Young JK, Lonsdorf EV, Santymire RM, Mateo JM. (2015). Back in the day: The impact of developmental experiences on consistent individual differences in coyotes". The 52nd Animal Behavior Society (ABS) conference. Anchorage, AK (S)
- Schell CJ**, Young JK, Lonsdorf EV, Santymire RM, Mateo JM. (2015). Developmental experience and its impact on adult temperament types in the coyote (*Canis latrans*)". International Urban Wildlife Conference. Chicago, IL (CT)
- Schell CJ**, Young JK, Lonsdorf EV, Mateo JM, Santymire RM. (2014). Novel Olfactory Stimulants provided during Pregnancy Influence Litter Temperament and Hormones in Coyotes. 21st Annual Wildlife Society Conference. Pittsburgh, PA. (CT)
- Schell CJ**, Young JK, Lonsdorf EV, Mateo JM, Santymire RM. (2014). The proximate impacts of parental effects on investigative behaviors and physiology in coyotes (*Canis latrans*). 51st Animal Meeting of the Animal Behavior Society. Princeton, NJ. (CT)

- Schell CJ**, Young JK, Lonsdorf EV, Mateo JM, Santymire RM. (2013) Impact of novel scent stimuli on fecal glucocorticoid and androgen metabolites in mated coyote pairs (*Canis latrans*). 4th Annual International Society of Wildlife Endocrinology (ISWE) Conference, Lincoln Park Zoo, Chicago, IL. (CT)
- Schell CJ**, Young JK, Lonsdorf EV, Mateo JM, Santymire RM. (2013). Effects of biparental care on temperament development in coyote offspring (*Canis latrans*). 50th Annual Meeting of the Animal Behavior Society. Boulder, CO. (CT)

Invited & public seminars

- Schell CJ** (2020). Wealth, race, and wildlife: The University of Nebraska Seminar Series.
- Schell CJ** (2020). The ecological and evolutionary consequences of systemic racism in urban environments. City of Seattle Lunch and Learn.
- Schell CJ** (2020). The eco-evolutionary consequences of structural racism in urban environments. Utah State University WILD/Ecology Center 2020-2021 Seminar Series.
- Schell CJ** (2020). Wealth, race, and wildlife: The impacts of structural inequality on urban wildlife. University of California Berkeley, Department of Environmental Science, Policy, and Management (ESPM) Seminar Series.
- Schell CJ** (2020). Wealth, race, and wildlife: The impacts of structural inequality on urban wildlife. Arizona State University School of Life Science Seminar Series.
- Schell CJ** (2020). Wealth, race, and wildlife: The impacts of structural inequality on urban wildlife. University of Washington Seminar Series co-hosted by the Department of Biology and the School of Environmental and Forestry Sciences.
- Schell CJ** (2020). Where the Wild Things Are: Urban Wildlife as Bioindicators of Structural Racism, Environmental Health, and Justice. Alaska Airlines Environmental Justice Webinar.
- Schell CJ** (2020). Community and Justice: Urban Conservation and Human-Wildlife Coexistence. Pacific Science Center Happy Hour Virtual Planetarium (<https://youtu.be/cq0Vf07Z3ao>)
- Schell CJ** (2020). Movement in the city: Using Bayesian and double-hierarchical modeling to assess personality differences in coyotes (*Canis latrans*). School of Aquatic and Fishery Sciences (SAFS) Quantitative Seminar Series, University of Washington.
- Schell CJ** (2020). Where the wild things are: The influence of social drivers on mammalian biodiversity in cities. Reed College Biology Seminar Series.
- Schell CJ** (2020). The hunger games: Food, fear, and the integrative mechanisms driving risk-taking in coyotes. Arizona State University School of Life Sciences (SOLS) Seminar Series
- Schell CJ** (2019). The heroes we need: Coyotes as sentinels and ambassadors of coupled human-natural systems. University of Washington Bothell Biology Seminars (Fall 2019).
- Schell CJ** (2019). Potential through place (invited plenary talk). Building Green Justice Forum, Huston-Tillotson University.
- Schell CJ** (2019). Sentinels of the city: Coyotes and raccoons as urban ecosystem ambassadors. R.A.I.N. Superheroes of Science.
- Schell CJ** (2019). Lights, Cameras, Action: Using wildlife cameras to assess how artificial light at night (ALAN) influences mammalian communities in cities. Collaborative Publicly Engaged Scholarship (CPES) Lightning Talks. University of Washington Tacoma, Tacoma WA
- Schell CJ**. (2019). Behavior in the city: Can we uncover personality traits in urban coyotes using movement ecology? University of Puget Sound, Tacoma, WA
- Schell CJ** (2019). Nothing to fear: Uncovering the mechanisms that mediate fearlessness in carnivores. Environmental Science Seminar, University of Washington Tacoma, Tacoma, WA
- Schell CJ**. (2019). Nothing to Fear: Uncovering the mechanisms that mediate fearlessness in coyotes. Fish and Wildlife Seminar Series, University of Washington, Seattle, WA
- Schell CJ**. (2019). Life Finds A Way: Evolution in Cities, Grit City Think & Drink, University of Washington Tacoma, Tacoma, WA
- Schell CJ**. (2018). More than just wily: How examining the proximate mechanisms underscoring boldness can explain urban adaptation in coyotes, Dept. of Zoology and Physiology Brown Bag Seminar, University of Wyoming, WY

- Schell CJ.** (2017). Darwin in the city: Urban evolutionary ecology and the benefits of a genomics approach in deciphering human-driven divergence, National Wildlife Research Center Seminar Series, Fort Collins, CO
- Schell CJ.** (2017). On the Origin of Conflict: The Role of Human Influence in Shaping Adaptive Behavior in Coyotes, SIAS Departmental Seminar, University of Washington-Tacoma, Tacoma, WA (assistant professor job talk)
- Schell CJ.** (2017). Cosmopolitan Carnivores: An integrative approach to personality and its role in facilitating coyote adaptation to human contexts, Emory Psychology Department Seminar Series, Atlanta, GA (assistant professor job talk)
- Schell CJ.** (2016). From Adaptedness to Adaptation: Elucidating the Processes that Facilitated and Perpetuate Coyote Urban Residency, Fish, Wildlife, and Conservation Biology Department (FWCB) Seminar Series, Fort Collins, CO

COLLABORATIVE RESEARCH ENGAGEMENTS

Urban Wildlife Information Network (UWIN). The first global collaboration collecting urban wildlife data with the aim of making cities part of a solution to the biodiversity crisis. This research collective brings UWIN researchers, urban planners, and architects together to discuss the network's broader impact, research capacity, potential cross-disciplinary alliances, and more. Serve as a core member of the UWIN network

(<https://urbanwildlifeinfo.org/>) (2015–Current)

Central Arizona-Phoenix Long-Term Ecological Research Project. The CAP-LTER is one of two (2) leading LTER programs funded by the National Science Foundation, focusing on social-ecological dynamics, human-wildlife interactions, and environmental justice in urban ecosystems. Serve as a faculty and team leader (for the CAP V initiative).

Grit City Carnivore Project (GCCP). A research partnership among University of Washington, Tacoma, Point Defiance Zoo & Aquarium, and MetroParks Tacoma to investigate the behavior, ecology, physiology, and genetics of urban carnivores in the Puget Sound region to mitigate human-wildlife conflict and promote coexistence. Serve as the principal investigator for the GCCP (2018-Current).

RCN Urban Eco-Evo Member. A research network to advance the study and understanding of eco-evolutionary dynamics in an urban planet (<https://www.urbanecoevo.net/network>). Serve as a participating member and contributor to the network (2019-Current)

The Next Urban Giants – Building Resilience and Equity into Growing Megapolitan Regions by Greening the Urban Human-Natural System. Worked as an invited team member to create a white paper addressing the most pressing issues that NSF needs to consider in urban ecological and sustainability efforts. Additionally, helped to craft documents for a future solicitation addressing building urban resiliency in the face of extreme urban expansion. (Summer 2019).

TEACHING

Past Teaching (University of Washington, Tacoma, University of Chicago, and Columbia University)

TESC 410 / TBIOMD 410. Environmental Science / Biomedical Science Seminar. Upper-division course for graduating Environmental Science students, serving as the “capstone course”, which provides students continued knowledge and practice with building an effective CV, creating scientific abstracts and posters, and being effective disseminators and orators of their science.

TBIOL 340: Ecology and its Applications. Upper-division course in the Environmental Science program with the intent of helping students clearly communicate scientific ideas through writing, data presentation, public speaking, and visual computer models. This course is also designed to help students develop advanced scientific skills integral to developing solutions toward environmental problems and participate in discussion about how ecological patterns and processes contribute to the contemporary environment.

TBIOL 120: Introductory Biology I. Part of the UW Tacoma Core Program for Environmental Science and Biomedical Sciences majors, this class is designed to lay a solid foundation of biological knowledge aimed at understanding the diversity of life on Earth. This course is also designed to prepare first-year students for upper division courses in the Science and Mathematics division, as well as provide non-major students with a wide-

ranging experience of ecology and evolution. The course includes interactive lectures (i.e., video media, educational games, in-class lab activities), laboratory experiments, Excel projects, and a final group presentation, all of which complement each other to provide students a comprehensive experience of the biological sciences.

TESC 200. Environmental Science Seminar. This course is meant to provide students (both lower and upper-division students) experience in extracurricular intellectual discourse and exposure to current research in environmental science. Faculty, staff, and students gather weekly for presentations by researchers and students and discuss recent literature.

Served as a graduate teaching assistant for the **Animal Behavior** course at the University of Chicago (**EVOL 34900**; Instructor: Dr. Stephen Pruett-Jones) – 2013

Served as a graduate teaching assistant for the **Ecology and Conservation** course at the University of Chicago (**ENSC 24400**; Instructors: Drs. Cathy Pfister & Eric Larsen) – 2012

Served as a graduate teaching assistant for the **Mind I** course at the University of Chicago (**SOSC 14100**; Multiple Instructors) – 2011

Served as an undergraduate teaching assistant for the **Animal Behavior** course at Columbia University (**PSYC W1001**, Instructor: Sarah Woolley) – 2008

Guest lectures (UW Tacoma, Colorado State University, University of Chicago)

Environmental Science Field Course (Instructor: Dan Shugar, University of Calgary): guest lecture on the intersections of wealth, race, and wildlife in cities (Fall 2020)

Urban Wildlife Management and Conservation (Instructor: David Munoz, Penn State University): guest lecture on the influence of wildlife behavior and human-wildlife conflict in effective wildlife management strategies (Fall 2019)

Cities, Ecology, and Evolution (Instructor: Marina Alberti, UW Seattle): guest lecture on the urban evolutionary ecology of coyotes and raccoons (Summer 2019 and 2020)

Intro to Urban Research (T URB 350); Instructor: Tracy Fuentes, UW Seattle): guest lecture on the application and implementation of ecological studies in cities (Fall 2018)

Introduction to Literature and Environment (T LIT 237); Instructor: Ellen Bayer, UW Tacoma): guest lecture on science communication and the iNaturalist™ community-engaged research program, Grit City Carnivore Project. (Fall 2018)

Animal Behavior (BZ 300); Instructor: Dr. Alisha Shah, Colorado State University): guest lecture on parenting and territoriality (Summers of 2017 and 2018)

Comparative Animal Physiology (BZ 401); Instructor: Dr. Gregory Florant, Colorado State University): taught 2 lectures on behavioral endocrinology of vertebrates (2017)

Animal Behavior & Conservation (BZ 430); Instructor: Dr. Lisa M. Angeloni, Colorado State University): guest lecture on animal personality and human-wildlife conflict (2017)

Animal Behavior (EVOL 34900); Instructor: Dr. Stephen Pruett-Jones, University of Chicago): guest lecture on parent-offspring conflict (2013)

Ecology and Conservation (ENSC 24400); Instructors: Drs. Cathy Pfister & Eric Larsen, University of Chicago): taught and led a lab activity based on human demographic patterns (2012).

Animal Behavior (W1001); Instructor: Sarah Woolley, Columbia University): guest lecture on sociality and kinship dynamics in animals (2008)

Student mentorship

Current student/postdoctoral mentees

Christine Wilkinson (UC Berkeley; postdoctoral fellow)	2021-present
Lauren A. Stanton (UC Berkeley; postdoctoral fellow)	2021-present
Elizabeth Carlen (Washington University of St. Louis; postdoctoral fellow)	2021-present
Cesar Estien (UC Berkeley; graduate student)	2021-present
Tyus Williams (UC Berkeley; graduate student)	2021-present
Yasmine Hentati (UW Tacoma; graduate student)	2020-present

Tali Caspi (UC Davis; graduate student)	2020-present
Emily Zepeda (UC Davis; graduate student)	2020-present
Emily Beam (University of Colorado, Boulder; graduate researcher)	2017-present

Past students

Chanda Hanson (UW Tacoma; undergraduate researcher/capstone student)	2019-2021
Vanessa J. Garcia (UW Tacoma; undergraduate researcher/capstone student)	2018-2019
Kaley Egan (Colorado State University; undergraduate researcher)	2018-2021
Tasha Albrecht (UW Tacoma; undergraduate researcher/capstone student)	2019-2021
Megan E. Dyrek (UW Tacoma; undergraduate researcher/capstone student)	2019-2020
Kavi Rana (UW Tacoma; undergraduate researcher/capstone student)	2019-2020
Amanda L. Campos (UW Tacoma; undergraduate researcher/capstone student)	2018-2019
Riley E. Haizlip (UW Tacoma; undergraduate researcher/capstone student)	2019-present
Ariel R. Greenheck (UW Tacoma; undergraduate researcher/capstone student)	2018-2019
Zigeng Chen (Colorado State University, masters research technician)	2016-2018
Isabella Harris (Colorado State University, undergraduate research intern)	2016-present
Anna Slage (Colorado State University, undergraduate research intern)	2016-2018
Christopher Kopack (Colorado State University, PhD research technician)	2016-2018
Teri Valenzuela (Lincoln Park Zoo, Urban Wildlife Institute research intern)	2015
Emily Lipstein (University of Chicago undergraduate volunteer)	2015
Brandon Flack (Utah State University, undergraduate volunteer)	2013-2015
Haley Gunter (North Carolina State University undergraduate volunteer)	2013

ACADEMIC & PROFESSIONAL SERVICE

UW Tacoma Departmental Service

Diversity Action Committee (2019-present)
 Diversity Workgroup (2018-present)
 Outreach Workgroup (2018-2020)
 Capstone Workgroup (2018-2019)

Professional service

30x30 California Natural Resources Agency (CNRA) Equity Advisory Panel. Served as an invited speaker and panelist to address the importance of environmental equity and justice at the center of the 30x30 statewide initiative for conservation and sustainability.

Q&A session with NSF Division of Environmental Biology. Served as an invited speaker and panelist to talk about justice, equity, diversity, and inclusion (JEDI) initiatives and ideas for the National Science Foundation. (2020)

UW-Tacoma Biology Lecturer Search Committee and Ecotoxicology Candidate Participation. Served as a core member of the hiring committee for the Biology Lecturer 2020-21 position. (2019-2020). Also helped with the Ecotoxicology search by attending seminars and meeting with the four candidates considered in the search.

Animal Behaviour Society (ABS) Diversity Committee. Serve as a committee member for the ABS to develop workshops, plenaries, and symposia on increase representation, recruitment, and retention of diverse, marginalized groups into behavioral ecology and animal behavior disciplines (2019-Current)

The Urban Wildlife Working Group (UWWG). Elected as a core committee member for the urban wildlife working group, a specialized working group in The Wildlife Society (TWS) specifically centered to address research and solutions around urban ecology and evolution. (2019-Current)

Lincoln Park Zoo 150th Anniversary Celebration. Composed an essay about community engagement, interaction, and communication in Chicago, IL. The essay, and a collection of other essays from the community, were published and released to the public in the Winter of 2019. (2018-2019)

Crisis and Creativity: Global Challenges Research Team (In the beginning: of Species). Co-organized and developed an interdisciplinary art installation and performative art piece blending biodiversity loss with media erasure techniques. The collaborative team working on the project (including Asst. Professor Ed Hall and Dr. Stewart Breck) was composed of ecologists, artists, novelists, journalists, and poets. The project was funded by the School of Global Environmental Sustainability at Colorado State University. (2017-2018)

myCHOICE doctoral alumni panelist at the University of Chicago. Participated as an alumni panelist for other graduate students in the biological sciences at the University of Chicago, centered on career paths and experiences beyond students' graduate school tenure (2016)

Genomic of Adaptation to Human Contexts. Co-organized a symposium at Colorado State University on the use of genomics in uncovering evolutionary processes in the face of human disturbance. Symposium organization was also co-organized by Drs. Brook Moyers and Kathryn Turner. Funding for the symposium was provided by the Genetics Society of America (\$2,000). (2016)

Peer-reviewer for the following journals. Animal Behaviour; Ecology and Evolution; Ecological Applications, Hormones and Behavior, Landscape and Urban Planning, Evolutionary Applications; Northeastern Naturalist; Journal of Mammalogy; Molecular Ecology; Journal of Urban Ecology; Behaviour; Behavioral Ecology, Behavioral Ecology and Sociobiology, PeerJ; Wildlife Society Bulletin; Frontiers in Ecology and Evolution

Member of the following scientific societies. Animal Behaviour Society (ABS); International Society for Wildlife Endocrinologists (ISWE); The Wildlife Society (TWS); American Society of Naturalists (ASN); American Society of Mammalogists (ASM), Society of Conservation Biology (SCB)

COMMUNITY ENGAGEMENT AND OUTREACH

Black Mammalogists Week. Served as a panelist, contributor, and organizing committee member for the social media (i.e. Twitter) initiative promoting and amplifying Black mammalogists and scholars. Sponsored by the American Society of Mammalogists and National Geographic. <https://blackmammalogists.com/>

Network for nature panel – Slipping through the cracks: Racism and the struggle for equity in the field of conservation. Served on a panel with several other scholars of color to talk about the intersections of racial equity, conservation, and traditional ecological knowledge. Hosted by Woodland Park Zoo. <https://www.zoo.org/networkfornature/events>

Penn State University Digital Lecture – Urban Wildlife Management and Human Dimensions. Provided a digital lecture for upper-division students at Penn State University on human-wildlife conflict, and the intersection of social determinants and ecological predictors for resolving conflict and promoting coexistence.

Doris Duke Conservation Scholars Program (DDCSP), Earthlab & University of Washington. Served as a faculty and researcher host for four DDCSP scholars to conduct intensive field research under with the Grit City Carnivore Project team. In mid-July, students had several hands-on active learning experiences to understand how to perform urban ecology fieldwork. (2019)

Metro Parks Tacoma Council Meeting. Talks to the public and elected officials about the benefits of the Grit City Carnivore Project, its aims and goals, and the collaborative efforts of PDZA and the University of Washington, Tacoma. (2019)

Zoo Society Luncheon. Provided public talk and educational booth for the Tacoma public about the Grit City Carnivore Project and its importance to understanding wildlife and people in Pierce County. (Spring 2019)

Paw'd Defiance: The UW Tacoma Podcast. Interview and podcast episode (hosted by Maria Crisostomo, co-guest Dr. Uba Backonja) about the influence of Jurassic Park on career trajectories in the sciences. The podcast was made possible by funding from the UW Tacoma Strategic Initiative Fund; invited to contribute by Eric Wilson-Edge (2019)

Sisterhood in the City. Guest scientist for middle school-aged African American girls about urban wildlife in Tacoma, WA. Collaborated with Point Defiance Zoo & Aquarium in raising awareness of the benefits of wildlife in our backyards (2019)

South Sound Sustainability Expo. Participated as a representative of the Sciences and Mathematics Division at UW Tacoma to engage the public in research at the university, our overall mission in the School of Interdisciplinary Arts and Sciences, and actively involve attendants in wildlife ecology techniques (2019)

- Achieving Change in our Communities for Equity and Student Success (ACCESS) in STEM.** Participated as a mentor for first-year students (Amal Abukar, Heaven Denham) to be a resource in navigating the sciences at the University of Washington, Tacoma. (2018-2020).
- Front Range Teen Science Café.** Provided a talk and active workshop for the public of Fort Collins to understand how wildlife make a living in cities (<https://teensciencecafe.org/cafes/front-range/>). (2018)
- UWIN-Fort Collins, CO Outreach.** Participated as a guest scientist and collaborator with Cache La Poudre Middle School students in Laporte, CO on mammalian biodiversity using motion-triggered camera traps under the Urban Wildlife Information Network (UWIN). (2016-2018)
- Equity and inclusion in the sciences (NWRC).** Led an equity and inclusion seminar at the National Wildlife Research Center that focused on the intersectionality of police brutality, being Black in America, and participation in the sciences. Discussions also focused on how to better engaged communities of color in long-lasting and impactful outreach efforts. (2016)
- Front Range Student Ecology Symposium (FRSES).** Served as a guest scientist for underserved middle school students participating in the symposium and conducted mock radiocollar experiments with students across the Colorado State University campus. (2016-2017)
- Nature Fridays.** Developed and organized an individualized outreach event with Beethoven Elementary in Chicago, IL, a predominantly African-American middle school in the south side of Chicago. (2015)
- Project Exploration Guest Scientist.** Collaborated with and provided guest lectures for the outreach Chicago-based outreach initiative, Project Exploration, through programs such as Junior Paleontologists (2010), All Girls Expedition (2010), Brothers 4 Science (2012), and Extreme Mammals (2013) to provide underserved middle and high school students out-of-the-classroom experiences of the biological sciences. (2010-2013)

MEDIA FEATURES, INTERVIEWS & RESEARCH PROFILES

- 2021: Netflix's Vox Explained Series: Season 3 Episode 4: *Dogs***
<https://www.netflix.com/title/80216752>
- 2020: Wildlife deaths from coronavirus disinfectant use alarm scientists**
<https://www.nationalgeographic.com/animals/2020/08/disinfectant-public-cities-pandemic-urban-wildlife-cvd/>
- 2020: Ecologists across the country say academy must root out racism, recognize Black scholar excellence**
<https://lsa.umich.edu/eeb/news-events/all-news/search-news/ecologists-across-the-country-say-academy-must-root-out-racism--.html>
- 2020: Cities have changed – for rats | The Atlantic.**
<https://www.theatlantic.com/science/archive/2020/06/pandemic-rats-urban-wildlife/612775/>
- 2020: Is Seattle wildlife actually behaving differently while we quarantine? | Seattle Met**
<https://www.seattlemet.com/news-and-city-life/2020/05/is-seattle-wildlife-actually-behaving-differently-while-we-quarantine>
- 2020: Brawling monkeys, wandering deer – blame coronavirus | The New York Times**
<https://www.nytimes.com/2020/03/16/science/hungry-monkeys-deer-coronavirus.html>
- 2020: KNKX.** Urban carnivores appear to be more nocturnal as region slows due to coronavirus.
<https://www.knkx.org/post/urban-carnivores-appear-be-more-nocturnal-region-slows-due-coronavirus>
- 2020: Feature story for UW Magazine (story written by Julie Davidow).** Seeing himself in the science.
<https://magazine.washington.edu/feature/ecologist-christopher-schell-sees-himself-in-the-science/>
- 2019: KIRO Radio.** Short interview with KIRO radio on the PM drive with Todd and Mike about coyotes, rabbits, and urban ecosystems of the Pacific Northwest.
- 2019: 60-Second Science.** Interview and digital feature about coyote habituation research. Writer: Jason Goldman. Scientific American.
- 2019: UW News feature.** UW news profile about recent publication on coyote parental effects and its role in habituation towards people. Article title: "When coyote parents get used to humans, their offspring become bolder, too". Writer: Hannah Hickey (<https://bit.ly/2OwdJgO>). Story was also featured at ABC7 KOMO (<https://bit.ly/2V7ckQe>), AAAS EurekAlert! (<https://bit.ly/2FM5oDc>), Futurity (<https://bit.ly/2FFJM9Y>), Earth.com News (<https://bit.ly/2Udwb3e>), and Science Daily (<https://bit.ly/2OxPu1O>).

- 2018: UW Tacoma Front-Page Profile.** Article title: "Urban Ecologist/Superhero". Writer: Eric Edge-Wilson (<https://bit.ly/2VbbrGJ>)
- 2018: The News Tribune.** Research for the newly-minted Grit City Carnivore Project was featured by The News Tribune considering recent coyote sightings throughout the North Tacoma area. Article title: "*Coyote sightings in Tacoma have nearly doubled this year. So what's going on?*". Writer: Matt Driscoll (<https://bit.ly/2JNx3YI>).
- 2016: DailyCamera Boulder News.** Postdoc research feature. Article title: "Coyote study in Boulder-Denver area to consider genetic evidence of behavioral traits". Writer: Charlie Brennan (<https://bit.ly/2U6KeZa>).
- 2016 ABC7 news in Denver, CO.** Postdoc research feature. Article title: "Researchers want to know why coyotes attack". Writer: Sally Mamdooh (<https://bit.ly/2FLOaWp>).
- 2015: Colorado Public Radio (CPR).** Interview and feature on postdoctoral research investigating the genetic links of boldness behaviors in coyotes. Article Title: "Coyote Conflicts Have Increased in Denver. Researchers Want to Know Why". Writer: Sam Brasch (<https://bit.ly/2l0ghCP>).
- 2015: Science out of the big box.** Article featuring dissertation research at the University of Chicago. Writer: Kevin Jiang (<https://bit.ly/2FBAj3D>)
- 2014: Before they were scientists: Chris Schell.** Featured scientist on Your Wild Life! Web series profile of scientists before they became professional scientists. Writer: Lea Shell (<https://bit.ly/2FINp08>).