DAKOTA E. MCCOY

PhD Candidate, Department of Organismic and Evolutionary Biology

Harvard University, MCZ #410
26 Oxford St
Cambridge, MA 02138

Email: dakotamccoy@g.harvard.edu
Website: https://reallymccoy.github.io/
Phone: 724-766-4014

EDUCATION

Harvard University, Cambridge, MA, USA Expected 2021
NDSEG Fellow and Ashford Fellow
PhD candidate in Organismic and Evolutionary Biology
Advisor: Professor David Haig

Oxford University, Oxford, UK 2015
Rhodes Scholar
MPhil in Geography and the Environment
Advisor: Professor Cameron Hepburn

Yale University, New Haven, CT, USA 2013
Kennedy T. Friend Scholar
BS in Biology

AWARDS AND GRANTS

INTERNATIONAL AND NATIONAL

NDSEG Graduate Fellowship (Department of Defense, Army Research Office) 2016-present
Rhodes Scholarship 2013-15
Marshall Scholarship (elected) 2013
Capital One Academic All-American 2013
Sigma Xi student research award 2013
National Science Foundation Research Experience for Undergraduates Fellow 2012
Goldwater Scholar; elected as a sophomore 2011

HARVARD UNIVERSITY

Ashford Fellowship 2015-present
Awarded to 6 incoming students across all disciplines at Harvard who are highly likely to make a substantial impact.
Office for Sustainability Grant ($5,000) to plant native trees and shrubs on campus 2020
Bowdoin Prize for Graduate Essay in the Natural Sciences ($10,000) 2020
Awarded to one graduate student per year for essays of originality and high literary merit. "Cheating Darwin: Germline Parasites and the Paradox of Transplant Rejection."

Chapman Fellowship ($2,000) for vertebrate locomotion. 2020
Regeneron Prize Harvard Nominee 2019
One of two Harvard nominees for "inventive" biomedical research proposals
Harvard Integrated Life Sciences, Student Proposal Grant ($2,000) 2017
Mind, Brain, and Behavior Graduate Student Award ($5,229) 2016
Mind, Brain, and Behavior Conference Award 2015

YALE UNIVERSITY

Edgar J. Boell Prize, awarded annually to one senior for excellence in biology. 2013
Branford Fellows Prize, awarded to one graduating senior for academic excellence. 2013
Kiphuth Student-Athlete Distinction Award 2013
Awarded to the female varsity athlete who ranks highest in scholarship.
Francis Gordon Brown Prize. 2012
Top prize for Yale juniors; awarded to one junior for "intellectual distinction, leadership, high personhood, & service to the University."
Yale Creative and Performing Arts Award 2012
Wrote, designed, letter-pressed, and hand-made a book entitled A Dozen Birds (biology and mythology).
Richter Fellowship, to study primate cognition at the Caribbean Primate Research Center. 2012
Dean's Research Fellowship 2012
To study primate cognition at the Caribbean Primate Research Center.
Yale Writing Center Essay Contest winner 2011
Awarded for the essay and research proposal "Do Octopuses Think Like Vertebrates?"
Environmental Summer Fellowship, to study conservation & ecosystem management. 2011
Von Damm Fellowship, to study paleontology at the Yale Peabody Museum. 2010-11
Kennedy T. Friend Scholarship, for Allegheny County Residents who attend Yale 2009-13

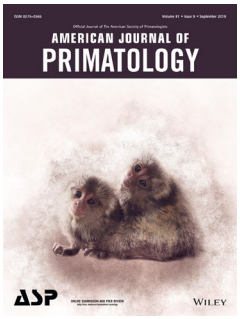
RESEARCH

SUMMARY: I have published 10 peer-reviewed articles and 2 book chapters, 10 as first author, in journals including *Nature Communications*, *Current Biology*, and *Trends in Ecology and Evolution.* My areas of study include biological optics, evolutionary conflict, and signaling. My work has been cited in the scientific literature 216 times to date (see Google Scholar) and received media coverage in the New York Times, Scientific American, National Geographic, The Atlantic, Science News, and more (see Media Coverage section below for more details).

PUBLISHED PAPERS

12. **McCoy, D. E.** and Haig, D. (2020). Embryo selection and mate choice: can 'honest signals' be trusted? *Trends in Ecology and Evolution,* 35(4), 308-318. [LINK]; [PDF version]
11. **McCoy, D.E.** & Prum, R.O. (2019). Convergent evolution of super black plumage near bright color in 15 bird families. *Journal of Experimental Biology*, *222*(18), jeb208140. [LINK]; [PDF version]; cover image (right)

10. Miller, R., Frohnwieser, A., Schiestl, M., **McCoy, D. E**., Gray, R. D., Taylor, A. H., & Clayton, N. S. (2019). Delayed gratification in New Caledonian crows and young children: influence of reward type and visibility. *Animal cognition*, *23*(1), 71-85. [LINK]; [PDF version]
9. **McCoy, D. E.,** Schiestl, M., Neilands, P., Hassall, R., Gray, R. D., & Taylor, A. H. (2019). New Caledonian Crows Behave Optimistically after Using Tools. *Current Biology*, *29*(16), 2737-2742. [LINK]; [PDF version]
8. **McCoy, D. E.***, Frye, B. M.*, Kotler, J., Burkart, J. M., Burns, M., Embury, A., ... & Goya, A. L. (2019). A comparative study of litter size and sex composition in a large dataset of callitrichine monkeys. *American journal of primatology*, e23038. [LINK]; [PDF version]; * co-first authors; cover image (right top)



7. **McCoy, D. E.**, McCoy, V. E., Mandsberg, N. K., Shneidman, A. V., Aizenberg, J., Prum, R. O., & Haig, D. (2019). Structurally assisted super black in colourful peacock spiders. *Proceedings of the Royal Society B*, *286*(1902), 20190589. [LINK]; [PDF version]; cover image (right bottom)
6. **McCoy, D. E.*,** Feo, T.*, Harvey, T. A., & Prum, R. O. (2018). Structural absorption by barbule microstructures of super black bird of paradise feathers. *Nature communications*, *9*(1), 1. [LINK]; [PDF version]; * co-first authors

5. **McCoy, D.E.** (2018) Evolutionary Change. In: Shackelford T., Weekes-Shackelford V. (eds) *Encyclopedia of Evolutionary Psychological Science,* Pp. 1–16. Cham: Springer International Publishing. Springer, Cham. [LINK]; [PDF version]
4. **McCoy, D.E.** (2018) Game Theory as a Foundation of Evolutionary Psychology. In: Shackelford T., Weekes-Shackelford V. (eds) *Encyclopedia of Evolutionary Psychological Science*. Pp. 1–17. Cham: Springer International Publishing Springer, Cham. [LINK]; [PDF version]
3. Petelle, M. R., **McCoy D.E.**, Alejandro, V.A., and Blumstein, D.T. (2013) Development of boldness and docility in yellow-bellied marmots. *Animal Behaviour* 86: 1147-1154. [LINK]; [PDF version]
2. **McCoy, D.E.** (2012) Connecticut birds and climate change: Bergmann's rule in the fourth dimension. *The Northeastern Naturalist* 19(2):323–334. [LINK]; [PDF version]
1. **McCoy, D. E.** and Norris, C.A. (2012) The Cranial Anatomy of the Miocene Notoungulate Hegetotherium mirabile (Notoungulata, Hegetotheriidae) with Preliminary Observations on Diet and Method of Feeding. *Bulletin of the Peabody Museum of Natural History* 53(2):355-374. [LINK]; [PDF version]

MANUSCRIPTS UNDER REVIEW

2. **McCoy, D.E.,** Shultz, A.J., Vidoudez, C., van der Heide, E., Trauger, S.A., & Haig, D.A (in revision for *Nature Communications*). Microstructures amplify carotenoid plumage signals in colorful tanagers [LINK]; [PDF version]
1. **McCoy, D.E.**, Ågren, J.A., Kotler, J. and Weir, B. (in review at *Evolutionary Applications*). Evolutionary conflict explains health problems during pregnancy

MANUSCRIPTS IN PREPARATION

3. **McCoy, D.E.,** Atahan, F., and Kiros, H., and Goulet-Scott, B. (in preparation). Urban ecology: city tree communities across the USA.
2. **McCoy, D. E.**, Boatman, B., Koenig, B. & Haig, D.A. (in preparation). House muddles: cooperation and conflict in mixed-age house mouse huddles.
1. **McCoy, D. E.**, Utter, D., & Haig, D.A. (in preparation). Pregnancy is an arms race: coevolutionary dynamics of gonadotropin hormones and receptors.

RESEARCH WORK / INTERNSHIPS

Research Assistant, Corporate Environmental Management. Oxford, UK. 2014-15
Smith School of Enterprise and the Environment, Oxford University, with Professor Gordon Clark, Director of Smith School.

Research Assistant, Environmental Policy. Oxford, UK. 2014-15
Blavatnik School of Public Policy, Oxford University, with Dr. Thomas Hale.

Curatorial Assistant at Yale Peabody Museum, Vertebrate Paleontology. New Haven, CT. 2009-13
Supervised by Dr. Chris Norris. Tasks include reorganizing the South American Mammal Collection based on modern phylogenic analysis, performing background research for outside researchers, and writing and designing exhibit placards.

Internship at the National Aviary, Pittsburgh, PA 2010
Conservation, outreach, behavior, natural history, & training.

INVITED TALKS AND GUEST LECTURES

"Sensory perception across species: evolution and machine learning." Google Brain Research Team meeting. (July 31, 2020). Cambridge, MA.

"Super Black in Animals." The 28th First Annual IgNobel Prize Ceremony & Lectures; 24/7 Speech. (2018). Cambridge, MA.

"Structural Color in Birds." Guest lecture, Harvard course on Ornithology. (2018). Cambridge, MA.

"Color, Feathers, and the Evolution of Beauty." Harvard Museum of Natural History, Adult Class on Bird Coloration. (2018) Cambridge, MA.

"Huddling: Conflict and Thermogenesis." Guest lecture: Harvard Course on Vertebrate Viviparity. (2017). Cambridge, MA.

Leadership Forum: Careers, Life, and Yale. (2016) New Haven, CT.

"The Value of Museum Collections." Verrill Medal Symposium, Yale Peabody Museum of Natural History. (2016) New Haven, CT.

"Conflict in Evolution: Thermoregulation to sexual selection." University of Zurich Afternoon Seminars. (2016). Zurich, Switzerland.

"Super Black" . Harvard Mind, Brain, and Behavior Open Science Conference. (April 21, 2016). Cambridge, MA.

"Connecticut Birds and Climate Change: Bergmann's Rule in the Fourth Dimension." St. Hilda's College Greenfeast Environmental Festival. (2014). Oxford, UK.

Leadership Forum: Yale National University of Singapore Launch. (2014). New Haven, CT.

- *One of four panelists speaking to the inaugural class of the Yale National University of Singapore.*

Yale Peabody Museum Leadership Council Presentation. (2014). New Haven, CT.

- *Invited to present to assembled financial sponsors, curators, professors, and the board of directors of the Yale Peabody Museum.*

CONFERENCES AND RESEARCH TALKS

McCoy, D.E., Shultz, A.J., Vidoudez, C., van der Heide, E., Trauger, S.A., & Haig, D.A. (2019). "The Corruption of Honest Signals: Mate Choice in Red Birds, Pregnancy, & the SAT" Society for Integrative and Comparative Biology Annual Meeting. January 3-7, 2019. Tampa, FL.
- *Finalist: Huey Award for best student paper (Division of Ecology and Evolution)*

McCoy, D. E., McCoy, V. E., Mandsberg, N. K., Shneidman, A. V., Aizenberg, J., Prum, R. O., & Haig, D. (2019) "Structurally assisted super black in colorful peacock spiders" (Poster). Evolution Meeting. June 21-25, 2019. Providence, RI.

McCoy, D.E., Shultz, A.J., Vidoudez, C., van der Heide, E., Trauger, S.A., & Haig, D.A. (2019). "Microstructure matters: amplifiers of carotenoid signals in Tanagers." Fourth Annual Boston Area Bird Meeting. January 24, 2019. Cambridge, MA.

McCoy, D.E., Shultz, A.J., Vidoudez, C., van der Heide, E., Trauger, S.A., & Haig, D.A. (2017). "Red velvet and neon yellow: vivid color from pigment and structure in the *Ramphocelus* tanagers." The 135th Meeting of American Ornithology. July 31-August 5, 2017. East Lansing, MI.

McCoy, D.E. and Prum., R.O.(2016). "Super black feathers: structure, perception, and a proposed sensory bias." Conference on Comparative Cognition. April 13-16, **2016.** Melbourne, FL.

McCoy, D.E. (2012). "Biogeography of Sociality in Terrestrial Vertebrates". Yale Ecology and Evolutionary Biology Senior Research Symposium

McCoy, D.E. (2012). "Theory of Mind in Rhesus Macaques" Caribbean Cayo Santiago Primate Research Center

McCoy, D.E. (2012). "A Drumlin Marmot: Behavioral Syndromes in the Yellow-Bellied Marmot" Rocky Mountain Biological Laboratory Symposium, Gothic, CO.

McCoy, D.E. and Norris, C. (2011). "Was Hegetotherium a 'Mammalian Woodpecker?'" Yale Engineering & Science Weekend (presentations to newly admitted science students)

TEACHING & MENTORSHIP

Harvard Law School

Climate Solutions Living Lab (Professor Wendy Jacobs) Spring 2020
- *Teaching Assistant, focusing on climate change and biochemical processes.*
- *Enrollees from business, law, policy, and public health schools.*
- *Directly supervised Carbon Crop Credit team (financial instrument to pair carbon offsets with agricultural emissions reductions via cover crops)*

Harvard University (Faculty of Arts and Sciences)

GenEd 1084: The First Nine Months (Professor David Haig) Spring 2020
- *Head Teaching Fellow, managed team of 5 teaching fellows*
- *Designed and led section discussions*

OEB 101: Biology of Mammals (Professor Jonathan Losos) Fall 2017
- *Teaching Fellow; led lab section; helped write exams*

OEB 114: Vertebrate Viviparity (Professor David Haig) Spring 2017
- *Teaching Fellow; led section; wrote exam*

Harvard University January-Term
How to Make A Book: From the Evolution of Writing to Movable Type — January 2016
- *Designed and taught a 3-week course*

University of Oxford, Said Business School
Corporate Environmental Management (Professors Alex Money and Gordon Clark) — Spring 2015
- *Teaching Assistant; led section; guest lectured*

University of Oxford, Centre for the Environment
Corporate Environmental Management (Professor Gordon Clark) — Fall 2014
- *Teaching Fellow; led section*

MENTORING EXPERIENCE

Harvard Resident Advisor (Adams House Tutor) — 2016-present
Live-in social and academic advisor for sophomores through seniors.
- *Direct academic adviser for 6 sophomores per year.*
- *Mentor Harvard undergraduates as they apply for science PhDs, post-graduate fellowships, jobs, and more.*
- *Provide social programming and welfare support to an entryway community of 30 undergraduate students each year*

NSF REU Advisor, Organismic and Evolutionary Biology (Harvard University) — 2020
Furkan Atahan, undergraduate. Project: City trees across the USA: native species, biodiversity, and equity

FDR Foundation Summer Research Advisor (Harvard University) — 2020
Fellowship program for students of highest financial need. Hana Kiros, undergraduate. Project: City trees across the USA: native species, biodiversity, and equity

Environmental Policy Summer Research (Harvard University) — 2020
Wooddynne Dejeanlouis, undergraduate: Project in preparation for publication: Anaerobic digestion: waste-to-energy as a backstop for intermittent renewables.

Senior Thesis Adviser, Integrative Biology (Harvard University) — 2019-20
Justina Hewitt, undergraduate: Thermoregulation and Sociality in Ground Squirrels. Justina received a Harvard Teacher Fellowship to teach Biology

Term-time Research Advisor, Integrative Biology (Harvard University) — 2017-18
Emma van der Heide, undergraduate: Microstructures amplify carotenoid plumage signals in colorful tanagers.
- *Paper under review at Nature Communications*

ZLR Valeon Tutor. — 2015-17
Mentor talented Chinese students as they consider graduate programs in Environmental Studies and Biology in the USA.

Freshman Counselor Program, Yale University. — 2012-13
Mentor and Residential Advisor for 16 first-year undergraduates from diverse backgrounds (mental health, academics, etc).

LEADERSHIP, SERVICE, AND OUTREACH

ACADEMIC SERVICE: INTERNATIONAL

Rhodes Scholarship China Preselection Committee 2017-present
Interview 6-10 candidates for the Rhodes Scholarship from China, submit to the National Committee ratings and reviews

Reviewer 2013-present
Current Biology, Proceedings of the Royal Society B., Biological Journal of the Linnean Society, Journal of Animal Ecology, Current Zoology, Journal of Vertebrate Biology

Evolution Community Resources for Early Career Researchers; Policy Panel 2020
Volunteer Code of Conduct Monitor

ACADEMIC SERVICE: UNIVERSITY

Fellowships Adviser for Undergraduates 2016-present
Mentor, mock interview, and write letters for students applying for post-grad. fellowships.

- *Of my ~80 advisees to date, more than 35 have won high-profile fellowships and prizes, including 2 Rhodes Scholarships, 1 Marshall Scholarship, 4 Fulbright Awards, a Churchill Scholarship, and a Schwarzman Scholarship.*

Oxford University Course Policy Committees 2013-15
Student representative on Joint Consultative Committee (Environmental Policy course matters), Postgraduate Research Course Forum (all postgraduate research courses MSc Committee (all Environmental masters courses), Postgraduate Taught Course Forum (all taught masters courses at University).

Rhodes Service and Leadership Committee: Student Representative 2013-14
Design and structure programming to encourage and foster service and leadership in all different forms among the Rhodes community. Spoke to assembled benefactors reporting on progress.

Yale College Task Force on Alcohol and Other Drugs 2013
One of five undergraduate members. Submitted final report to Dean Mary Miller and presented findings to the Council of Trustees.

POLICY ACTIVITIES

CovidLoanTracker for Small Business Loans 2020
www.covidloantracker.com/
Volunteer Data Scientist.
Crowd-sourced effort to track the disbursement of government loans to small businesses during the covid19 crisis. Data visualization, data analysis, and website design.

- *Received survey replies from >30,000 small businesses, received news coverage in CNN, NBC Miami, Business Insider, Forbes, the LA Times, and more.*

Harvard GSAS Environmental Action Team[1] 2016-present
https://www.facebook.com/HarvardGrEAT; https://actioncoalition.fas.harvard.edu/
Co-founder and President 2016-2019, Executive Board 2020.
Graduate students for environmental justice. Averaging three focal topics per semester, we encourage graduate students to use their research skills for good and become engaged citizens. For example, we:

[1] Formerly named the GSAS Action Coalition.

- *Wrote and submitted multiple public comments to Regulations.gov on oil and gas leasing, the preservation of wild lands, and more. Partnered with the Harvard Law School Emmett Environmental Policy Clinic*
- *Hosted multiple letter-writing, text-banking, and phone-banking advocacy sessions*
- *Wrote the Harvard Against Solitary Confinement petition (over 400 signatures) and submitted it to legislators; prompted Representative Denise Provost to submit a proposed amendment about solitary confinement programming to the Massachusetts omnibus criminal justice bill*

Harvard Votes Challenge 2018

Co-chair, Graduate School of Arts and Sciences

Nonpartisan initiative to get out the vote at Harvard. Tabled, flyered, hosted social events.

WHITE PAPERS AND PUBLIC COMMENTS

Cattaneo, L, **McCoy, D.E.**, Matchett, J., Pollack, E., and Saltzman, V.. (2020). *Waste-to Energy and Community Resiliency: Quapaw Nation, OK.* Harvard Law School; Climate Solutions Living Lab. Available at http://clinics.law.harvard.edu/environment/files/2019/05/Team-2-Quapaw-Imp.Plan-FS-FINAL-reduced-size.pdf

McCoy, D.E., Meeks, A., Clark, A., Gersony, J., Edelman, N. and Goulet, B. (2017) *Public comment on the Department of the Interior (DOI) Notice*: Review of Certain National Monuments Established Since 1996. Available at https://www.regulations.gov/document?D=DOI-2017-0002-780036

Goulet, B., Wilkin, H., Lai, P., Gersony, J., Treibergs, K., **McCoy, D.E.**, and Edwards, M. (2017). *Public comment on the Bureau of Ocean Energy Management (BOEM) Notice: Environmental Impact Statements; Availability, etc.:* 2019-2024 Draft Proposed Outer Continental Shelf Oil and Gas Leasing Program. Available at: https://www.regulations.gov/document?D=BOEM-2017-0074-21028

McCoy, D.E., Meeks, A.,, and Ross, A. (2017). *Public comment on the U.S. Department of State (DOS) Notice: Environmental Impact Statements; Availability, etc.:* Proposed Enbridge Energy, Limited Partnership Line 67 Expansion Project. Available at https://www.regulations.gov/document?D=DOS-2017-0009-0305

POPULAR PRESS ARTICLES

Mastroianni, A. and **McCoy, D.E**. (May 17, 2018) "Countries with Less Gender Equity Have More Women in STEM--Huh?" *Scientific American.* Available at: https://blogs.scientificamerican.com/voices/countries-with-less-gender-equity-have-more-women-in-stem-huh/

McCoy, D.E. (January 9, 2018). Super-black feathers can absorb virtually every photon of light that hits them. *The Conversation.* Available at: http://theconversation.com/super-black-feathers-can-absorb-virtually-every-photon-of-light-that-hits-them-89689

Edelman, N.B., Goulet, B., and **McCoy, D.E**. (October 27, 2017) Ecologically Critical National Monument Lands are Under Attack. *Harvard Crimson*. Available at: https://www.thecrimson.com/article/2017/10/27/ecologically-critical-under-attack/

Hollingsworth, L.R., Veeraraghavan, P., Wu, K.J., **McCoy, D.E.**, Van Dervort, A., and Gunther K.E. (December 1, 2017). Letter: Speak out against tuition waiver taxes. *Science*. Available at: http://science.sciencemag.org/content/358/6369/1395.1

Kolb, R. and **McCoy, D.E.**. (August 3, 2017) "Gene-editing tool raises questions about what is 'disease'." *San Francisco Chronicle.* Available at: https://www.sfchronicle.com/opinion/openforum/article/Gene-editing-tool-raises-questions-about-what-is-11732894.php

McCoy, D.E. (June 2, 2017). Pittsburgh isn't the city you think it is, Mr. President. *PennLive*. Available at: https://www.pennlive.com/opinion/2017/06/pittsburgh_isnt_the_city_you_t.html

McCoy, D.E. (February 17, 2017). Climate & business: Letter to the Editor. *Pittsburgh Tribune Review (TribLive.com).* Available at: http://triblive.com/opinion/letters/11939678-74/climate-business-coal

McCoy, D.E. (September 25, 2011). In Praise of the Peabody. *Yale Daily News.* https://yaledailynews.com/blog/2011/09/25/mccoy-in-praise-of-the-peabody/

SCIENTIFIC OUTREACH

BBC Documentary TV Show: "World's Cleverest Animals". (2020-21). Interview anticipated Fall 2020, to air the following year.

Boston Museum of Fine Art: Art-Science Collaboration. (2018). Jason Chase developed three pieces of art using Singularity Black, a super black structural paint developed by NanoLab. Boston, MA. Viewable at https://www.jasonchase.com/singularity-black-art

"Love is a Battlefield." (2018). Veritalk Podcast Interview, Harvard Graduate School of Arts and Sciences. Cambridge, MA. Available at https://www.iheart.com/podcast/256-veritalk-43086282/episode/plumage-episode-1-love-is-a-44831286/

"Super Black." (2018). Presentation with Harvard Project Teach, Harvard Museum of Natural History. Cambridge, MA.

Science in the News Public Presentation: "Super Black Birds and Spiders: Conflict in Evolution." (2018). Cambridge, MA. Available at http://sitn.hms.harvard.edu/seminars/2018/may-2-super-black-birds-spiders-snakes/

Host, Op-Ed Writing Workshop for Scientists. (2018). Designed and led workshop for graduate students with science writer Madeline Drexler, supported by Harvard Integrated Life Sciences. Cambridge, MA.

Ashford Fellowship Coordinating Intern. (2017-2019). Organize social events for Ashford fellows at Harvard. Cambridge, MA. Present

Paid Science Blogger at passle.net, focusing on the environment, animal cognition, and evolution. (2014-15). Oxford, UK.

- *More than 11,000 post views and 2,400 shares*

Peabody Museum Public Outreach Programs. (2009-13). Annually recurring events, e.g., Meet the Scientist Dino Days (hands-on demonstrator), Paleo-Knowledge Bowl (judge & question writer).

OTHER

MEDIA COVERAGE

Super Black Birds

- **New York Times**; Ultra-Black Is the New Black https://www.nytimes.com/2019/11/11/science/black-fashion-physics-animals.html

- **Scientific American:** Back to Black: How Birds-of-Paradise Get Their Midnight Feathers https://www.scientificamerican.com/article/back-to-black-how-birds-of-paradise-get-their-midnight-feathers/
- **Audubon:** Birds-of-Paradise Have Feathers That Act Like Black Holes https://www.audubon.org/news/birds-paradise-have-feathers-act-black-holes
- **The Atlantic:** Super-Black is the New Black https://www.theatlantic.com/science/archive/2018/01/super-black-is-the-new-black/549869/
- **Science:** 'Superblack' bird of paradise feathers absorb 99.95% of light https://www.sciencemag.org/news/2018/01/superblack-bird-paradise-feathers-absorb-9995-light
- **Wired:** The World's Most Metal Bird Makes Darkness Out of Chaos https://www.wired.com/story/the-worlds-most-metal-bird-makes-darkness-out-of-chaos/
- **Gizmodo:** These Birds Evolved Feathers So Dark, They're Like A 'Black Hole' https://gizmodo.com/these-birds-evolved-feathers-so-dark-they-re-like-a-b-1821906446
- **Inside Science:** BRIEF: For Birds of Paradise, Super-Black Feathers Make Bright Spots Shine https://www.insidescience.org/news/brief-birds-paradise-super-black-feathers-make-bright-spots-shine
- Smithsonian: Scientists Shine New Light on the Blackest Black Feathers https://www.smithsonianmag.com/smart-news/scientists-shine-new-light-birds-super-black-feathers-180967796/

Super Black Peacock Spiders

- **Science News:** Peacock spiders' superblack spots reflect just 0.5 percent of light https://www.sciencenews.org/article/peacock-spiders-superblack-spots-reflect-just-05-percent-light
- **National Geographic:** How peacock spiders use optical illusions to woo females https://www.nationalgeographic.com/animals/2019/05/peacock-spiders-black-females-courtship/
- **Harvard Gazette:** Researchers eye flashy coats of peacock spiders inpursuit of new solar products. https://news.harvard.edu/gazette/story/2019/07/researchers-eye-flashy-coats-of-peacock-spiders-in-pursuit-of-new-solar-products/
- **Smithsonian Mag:** A Nanoscale Light Trick Is the Key to Peacock Spiders' Super-Black Spots https://www.smithsonianmag.com/smart-news/peacock-spiders-use-nanotech-produce-their-superblack-spots-180972200/

New Caledonian Crows

- **Sci-News:** New Caledonian Crows Enjoy Using Tools, Study Finds http://www.sci-news.com/biology/new-caledonian-crows-enjoy-using-tools-07529.html
- **Inside Science:** Using Tools Puts Crows in a Good Mood https://www.insidescience.org/news/using-tools-puts-crows-good-mood
- **ABC News:** Crows really enjoy using tools, researchers find https://abcnews.go.com/Technology/crows-enjoy-tools-researchers-find/story?id=64739159
- **BBC:** Crows could be the smartest animal other than primates https://www.bbc.com/future/article/20191211-crows-could-be-the-smartest-animal-other-than-primates
- **Natural History Magazine:** Animal Optimism https://www.naturalhistorymag.com/samplings/263719/animal-optimism

- **Harvard Magazine:** Crows Know How to Have Fun
  https://www.harvardmagazine.com/2019/08/crows-know-how-to-have-fun
- **Phys.org:** After using tools, crows behave more optimistically, study suggests
  https://phys.org/news/2019-08-tools-crows-optimistically.html
- **Harvard Gazette:** At Home with Harvard: The Secret Lives of Animals
  https://harvardmagazine.com/2020/05/at-home-with-harvard-the-secret-lives-of-animals

Deceptive Tanagers

- **The Society for Integrative and Comparative Biology:** The Devil Wears Prada: Birds have Designer Cheats to Make The Bland Look Beautiful
  https://sicb.burkclients.com/students/2019/hensley.php

SKILLS & INTERESTS

- Computer science: familiar with Python and R; some experience with Matlab
- Music: 9 years of a cappella singing, including 3 CDs and international tours (current group: VoiceLab. Past groups: The New Blue, Whim 'n Rhythm)
- Running and Sports: Yale Varsity Track & Field, top ten all-time at Yale in javelin throw and 60m hurdles, varsity starter in 400m hurdles, 100m hurdles, 4x400m relay; Capital One Academic All-American Division I women's track and field: second team (2013). Capital One First Team Academic All-District I Women's Track & Field team (2011, 2013).
- Egyptian hieroglyphics
- Bookbinding (affiliated with the Bow & Arrow Press)

RAP MUSIC DISCOGRAPHY

Backup Dancer. La Perla, Puerto Rico, USA. **2012**

Uncredited appearance as backup dancer in music video by Puerto Rican reggaeton artist Audi.