

CURRICULUM VITAE

Stotra Chakrabarti, Ph.D.

Department of Biology

Macalester College

Olin Rice Science Center 211

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Sections marked in red refer to pandemic years

BIOGRAPHICAL SKETCH

Dr. Stotra Chakrabarti's expertise is in studying the links between fundamental animal ecology and applied conservation, with large mammals (especially carnivores) as study species. **Stotra's fundamental research pertains to the understanding of variations in animal behaviour, and the role of populations and individuals in driving that variation. Stotra addresses questions regarding the evolution of sociality, optimal strategies such as mating systems, group size and predator-prey size efficiency, individual differences in behaviour, personalities and cultures. His applied research involves habitat modelling, movement ecology, survival and mortality assessment, reintroduction planning, corridor connectivity, human-wildlife conflict mitigation, and developing *land-sharing models* in conservation. He is also an award-winning teacher.** He currently teaches undergraduate courses in Animal Behaviour, Wildlife Conservation, Wildlife Monitoring Techniques, and Ecology & Environment at Macalester College. He has taught undergraduate and graduate courses in Animal Behaviour, Optimal Foraging Principles, Wildlife Conservation and Management, and has instructed graduate field courses on Wildlife Handling Techniques at the University of Minnesota, Wildlife Institute of India, and Forest Research Institute in India. He has also instructed two advanced courses on Human-Wildlife Conflict Mitigation for forest managers in India. Stotra uses social media and popular science writing to weave science communication into his curricula and outreach. Stotra's curiosity in the natural world began with a childhood spent watching leopards and elephants in the vicinity of where he grew up: the foothills of Himalayas in India. Subsequently, a very immersive and rigorous masters training at the Wildlife Institute of India cemented his interest in animal behavior and conservation biology.

EDUCATION AND PROFESSIONAL EXPERIENCE

Assistant Professor	Macalester College, USA	Jul 2023 -
Member, Communication & Education Committee	International Wolf Center, USA	Dec 2021 -
Team Member & Mentor	Animal Behaviour Collective	Dec 2021 -
Visiting Assistant Professor	Macalester College, USA	Sep 2021 - Jun 2023
Postdoctoral Research Associate	University of Minnesota, USA	Sep 2019 - Aug 2021
Project Scientist, Human-Wildlife Conflict	Wildlife Institute of India	Jul 2018 - May 2019
Senior Research Fellow	Wildlife Institute of India	Feb 2016 - Jul 2018
Junior Research Fellow	Wildlife Institute of India	Oct 2013 - Feb 2016
Ph.D. Wildlife Science	Forest Research Institute University, India	Mar 2015 - Oct 2018
M.Sc. Wildlife Science (1 st class, University 2 nd rank)	Wildlife Institute of India	Jun 2011 - Jul 2013
B.Sc. Zoology (Honours), Botany, Chemistry	Calcutta University, India	Jul 2007 - May 2011

THESIS

Ph.D. *Sociality in Asiatic lions*. PhD advisor: YV Jhala, Dean & Senior Professor, Wildlife Institute of India. Available at: <https://shodhganga.inflibnet.ac.in/handle/10603/269414>

M.S. *Computing Biomass Consumption from Scats of Tropical Felids*. Awarded best dissertation. Dissertation advisor: YV Jhala, Dean & Senior Professor, Wildlife Institute of India.

FELLOWSHIPS, CONTRACTS, GRANTS AND SCHOLARSHIPS

2024	Wallace Grant to Initiate "Fission-Fusion in Tsavo lions" Project	USD 4500
2023	Wallace Grant to Initiate "Lion Density Assessment in Saadani NP, Tanzania" Project	USD 4000
2023	Career Diversity Grant, Animal Behavior Society to Present at the ABS 2023, Portland, USA	USD 1000
2023	Early Career Professional Travel Grant to Present at the 13 th International Mammalogy Congress, Alaska; American Society of Mammalogists	USD 1500
2021-2023	Israel Academy of Sciences and Humanities (IASH) and	USD 100,500

	Council for Higher Education (CHE) Excellence Fellowship (<i>not availed</i>)	
2019-2021	NSF supported Postdoctoral Position, University of Minnesota	USD 96,848
2018-2021	Instrumental in developing the research proposal for long-term continuation of the project on Asiatic lion ecology, behaviour and conservation. <i>Funding Agency:</i> MoEFCC, India	USD 85,590
2018-2019	Sandwich Fellowship Grant, Bar Ilan University, Israel (<i>not availed</i>)	USD 23,000
2018	ISBE Travel grant to present at Behaviour Congress, ISBE 2018, Minneapolis	USD 2,300
2017	DST Travel Grant to attend and present at BES Annual Meet, Belgium	USD 2,300
2017	SCCS, Cambridge Travel Grant	USD 800
2017-2019	Instrumental in developing the research proposal on mapping lion corridors and refuge patches in Gujarat. <i>Project funded by:</i> Gujarat Forest Department	USD 61,120
2017-2018	Senior Research Fellowship, Wildlife Institute of India	USD 6,000
2013-2016	Junior Research Fellowship, Wildlife Institute of India	USD 10,000
2013	SCCS, Bangalore Travel Grant	USD 125
2011-2013	Wildlife Institute of India's full grant for Master's course in Wildlife Science	USD 3,252

PEER-REVIEWED PUBLICATIONS

PUBLISHED/ACCEPTED

*Co-First Author; #Graduate Co-Author; Undergraduate Student Co-Author

BOOK CHAPTERS

15. **Chakrabarti S**, Banerjee K, Jhala YV. 2023. Role of Food & Mates in Shaping Asiatic Lion Societies in *Social strategies of carnivorous mammalian predators: Hunting and Surviving as Families* eds. M Srinivasan & B Würsig (Springer Nature publishers) [**Invited Book Chapter**] https://link.springer.com/chapter/10.1007/978-3-031-29803-5_3

JOURNAL PAPERS

14. **King E**, **Chakrabarti S*** et al. The Lion's Share: Implications of a carnivore's diet on threatened herbivores in Tsavo, Kenya. **Oryx** (*in press*)

13. Candler E#, **Chakrabarti S**, Severud W, Bump JK. 2023. Eat or Be Eaten: Implications of potential exploitative competition between wolves and humans across predator-savvy and naïve prey populations. **Journal of Ecology & Evolution**. <https://doi.org/10.1002/ece3.10694>

12. Morris A#, **Smith I**, **Chakrabarti S** et al. 2023. Eating an Elephant, One Bite at a Time: Predator interactions at Carrion Bonanzas. **Journal Food Webs**. <https://doi.org/10.1016/j.fooweb.2023.e00304>

11. **Chakrabarti S**, Wikenros C, Borg B, Jhala YV, Bump J. 2023. Editorial: New Century Wolf Conservation & Conflict Management. **Frontiers in Ecology and Evolution** <https://doi.org/10.3389/fevo.2023.1174661>

10. Srivathsa A, Vausdev D, Nair T, **Chakrabarti S** et al. 2023. Prioritizing landscapes to reconcile biodiversity conservation, ecosystem services, and human well-being in India. **Nature Sustainability** <https://doi.org/10.1038/s41893-023-01063-2>

9. **Chakrabarti S**, O'neil ST, Erb J, Humphal C, Bump JK. 2022. Recent Trends in Survival and Mortality of Wolves in Minnesota, United States. **Frontiers in Ecology & Evolution** 10:826358. [doi: 10.3389/fevo.2022.826358](https://doi.org/10.3389/fevo.2022.826358)

8. Bump JK, Gable T, Johnson-Bice S,.....& **Chakrabarti S**. 2022. Predator Personalities Alter Ecosystem Services. **Frontiers in Ecology & Environment, ESA**, <https://doi.org/10.1002/fee.2512>

7. **Chakrabarti S**, Bump JK, Jhala YV, Packer C. 2021. Contrasting levels of *social distancing* between the sexes in lions. **iScience, Cell Press** <https://doi.org/10.1016/j.isci.2021.102406>

6. **Chakrabarti S**, Kolipakam V, Bump JK, Jhala YV. 2020. The role of kinship and demography in shaping cooperation amongst male lions. **Scientific Reports**, <https://doi.org/10.1038/s41598-020-74247-x>

5. Mittal D, **Chakrabarti S***, Khambda SB, Bump JK. 2020. Spots and manes: the curious case of foster care between two competing felids. **Ecosphere**, 11(2). <https://doi.org/10.1002/ecs2.3047>

4. Jhala YV, Banerjee K, **Chakrabarti S**, Basu P, Singh K, Dave C, Gogoi K. 2019. Asiatic lion: Ecology, Economics and Politics of Conservation. **Frontiers in Ecology and Evolution** 7, 312. <https://doi.org/10.3389/fevo.2019.00312>

3. **Chakrabarti S**, Jhala YV. 2019. Battle of the Sexes: a multi-male mating strategy helps lionesses win the gender war of fitness. **Behavioural Ecology** 30: 1050-1061. <https://doi.org/10.1093/beheco/arz048>

2. **Chakrabarti S**, Jhala YV. 2017. Selfish Partners: resource partitioning in male coalitions of Asiatic lion **Behavioural Ecology** 28 1532-1539, <https://doi.org/10.1093/beheco/arx118>.

1. **Chakrabarti S**, Jhala YV, Dutta S, Qureshi Q, Kadivar RF, Rana VJ. 2016. Adding constraints to predation through allometric relation of scats to consumption. **Journal of Animal Ecology** 85:660-670. <https://doi.org/10.1111/1365-2656.12508>

IN REVISION/REVIEW (AVAILABLE ON REQUEST IF NOT PREPRINTED/HYPERLINKED)

JOURNAL PAPERS

***Joint First Author**; #**Graduate Co-Author**; **Undergraduate Student Co-Author**

1. Fleury G, Green A, Banerjee S, **Chakrabarti S** et al. A Change is Gonna Come: The Need for Cultural Relevancy in Human-Wildlife Conflict Mitigation. **Journal Conservation Biology**
2. Gogoi K, Banerjee K, **Chakrabarti S**, Jhala YV. Decoding the Enigma of Human-Lion Coexistence in India. **Journal Conservation Biology**

IN PREPARATION (TENTATIVE TITLES)

***Joint First Author**; #**Graduate Co-Author**; **Undergraduate Student Co-Author**

1. Munster A, **Chakrabarti S*** et al. Non-consumptive Predation Effect of Wolves on Beavers (Target Journal: Ecology & Evolution)
2. Boudinot L..... & Chakrabarti S. Demography of lions in Tarangire and Lake Manyara: small and isolated versus big and connected. (Target Journal: Oryx)
3. Odock F#, Morris A#, Chakrabarti S, Moller R, Bump JK. Big Tuskers: habitat distribution and conservation implications for large elephants in Tsavo (Target Journal: Scientific Reports)
4. Bump JK, Chakrabarti S, Jhala YV & Mech D. Carnivore Cultures: what are they and why they matter for conservation policy? (Target Journal: Conservation Science and Policy)

KEY TECHNICAL REPORTS (AVAILABLE ON REQUEST)

5. Jhala YV., Singh AP, Gogoi K, **Chakrabarti S**, et al. 2018. Spatial analysis of livestock predation by lions in the Greater Gir Landscape. Technical Report of the Gujarat Forest Department & Wildlife Institute of India. TR 2018/18, pp 75
4. **Chakrabarti S**, Gogoi K, Banerjee K, Jhala YV. 2016. Ecology of Endangered Asiatic lion using Satellite and GPS Telemetry - Final Project Report (2013 – 2016) submitted to the Department of Science and Technology. Technical Report, Wildlife Institute of India, Dehra Dun, India, pp xvi + 141.
3. Jhala YV, Banerjee K, Basu P, **Chakrabarti S**, Gayen S, Gogoi K, Basu A. 2016. Ecology of Asiatic Lions in Saurashtra, Gujarat - Final Project Report (2011 – 2016) submitted to the Gujarat Forest Department. Technical Report, Wildlife Institute of India, Dehra Dun, India, TR-2016/003, pp xxv + 436.
2. Jhala YV, Banerjee K, Basu P, **Chakrabarti S**, Gayen S. 2014. Assessment of Barda landscape for reintroduction of Asiatic lions. Technical Report, Wildlife Institute of India, Dehra Dun, India, TR-2014/003, pp xiii + 146.
1. **Chakrabarti S**, Jhala YV, Qureshi Q, Rana VJ, Kadivar RF. 2013. Computing biomass consumption from prey occurrences in scats of tropical felids. Technical Report. Wildlife Institute of India, Dehradun TR 2013/004, pp 57

POPULAR SCIENCE ARTICLES (AVAILABLE ON REQUEST IF NOT HYPERLINKED)

11. Krishnaswamy J, **Chakrabarti S**, Srivathsa A, Ramkrishnan U: Behind the paper blog post for Nature Portfolio Communities. 2023. [Reconciling biodiversity and human well-being in a mega-diverse and crowded country](#)
10. Chakrabarti S. 2022 [Why there is hope for the cheetah in India?](#) Op-Ed for The Indian Express
9. **Chakrabarti S**. 2021. [Social distancing: a journey to understand manes and myself](#). Ecological Society of America (Section Early Career Ecologist Blog).
8. **Chakrabarti S**. 2020. The Tawny Alliance. *SAEVUS*, Issue Dec 19 - Feb 2020. Can be accessed [here](#)
7. **Chakrabarti S**. 2019. A cat out of the bag: lions in a human landscape. Hornbill, Bombay Natural History Society, April-June 2019. Can be accessed [here](#)
6. **Chakrabarti S**, Dutt A, Sadhu A, Mathur VB. 2018. Campus Canines: managing stray dogs in WII campus. *SAEVUS*. Vol 7 Issue 4; Dec 18 – Feb 19. Can be accessed [here](#)
5. **Chakrabarti S**. 2018. Tailing the last lions of Asia. *Science Outside, American Blog of Science*. Can be accessed [here](#)
4. **Chakrabarti S**. 2018. Of Men & Manes. *SAEVUS*, Vol 7 Issue 1, March-May 2018. Can be accessed [here](#)
3. **Research Advisor** to Saving Asia's Pride: Cover Story of *SAEVUS*, Vol 8 Issue 1, June-Aug 2018

2. **Chakrabarti S.** 2017. Belling the cat: using telemetry to study lions in people's backyards. *Sanctuary Asia*, Vol. XXXVII No.12 December Issue. Can be accessed [here](#)

1. **Chakrabarti S.** 2011. A walk on the wild side. *WII Newsletter 18(3)* (pp) 2. Wildlife Institute of India.

CONFERENCE PRESENTATIONS & RESEARCH SEMINARS (40 presentations, including 19 invited seminars & 6 best presentations)

* Best Presenter Award, #Invited, ^Upcoming

- 2023[#]** “Behaviour & Conservation of the Last Lions of Asia”, Department of Biological Sciences Seminar Series, University of Chester, UK
- 2023[#]** Keynote Plenary for Behaviour 2023 conference, schedule - [Behaviour 2023, Bielefeld, Germany](#)
- 2023[#]** Invited Seminar “Land, Lions & Livestock”, Biology Department Seminar Series, Hamline University, MN, USA
- 2023** Oral Presentation, “Social Distancing in Lions”, for International Mammalogical Congress, American Society of Mammologists, Alaska, USA
- 2023** Oral Presentation, “Social Distancing in Lions”, for Animal Behaviour Society Conference, Portland, USA
- 2023[#]** Seminar “Selfish Partners or Comrades in Arms? Understanding male coalitions in Asian lions” for Biology Department Spring Seminar Series, University of Wisconsin Eau Claire, USA
- 2023 Twitter Presentation: “Social Distancing in Lions”, 2nd Twitter Conference of the Association for the Study of animal Behaviour, #AnimBehav2023, presentation/tweets available [here](#)
- 2022 Oral Presentation: “Social Distancing in Lions”, Animal Behaviour Live Online Conference, 2022
- 2022[#]** Seminar: “Lying King: an evolutionary take on lion socio-biology”, Nottingham Trent University Seminar Series, UK
- 2022 Oral Presentation: “Recent Trends in Survival & Mortality of Wolves”, International Wolf Symposium, Minnesota, USA
- 2022 Oral Presentation: “Social Distancing in Lions: reasons and outcomes of sexual segregation in a group-living carnivore”, Animal Behaviour Society Annual Conference 2022, Costa Rica
- 2022[#]** Seminar “Animal Behaviour & Conservation: role of populations & individuals” to the Wildlife Institute of India
- 2022[#]** Seminar “Animal Behaviour & Conservation: role of populations & individuals” to National Center for Biological Sciences, India
- 2022[#]** Seminar “Animal Behaviour & Conservation: role of populations & individuals” to Indian Institute of Science
- 2022[#]** Seminar ‘When the lion goes to the clinic: Implications of long-term monitoring on health surveillance of Asian lions’, Ecosystem Health Seminar Series, Departments of Veterinary Population Medicine and Ecology, Evolution & Behaviour, University of Minnesota
- 2022[#]** Seminar: “Lion Coalitionary Dynamics” to Social Evolution & Behaviour Lab (PI: Prof. Nichola Raihani), University College London
- 2021[#]** Facebook Live seminar: “Global Perspectives of Conservation: Lessons from India” for Endangered Species Day, organized by CAMPA Project, Wildlife Institute of India
- 2021[#]** Seminar: “Social Distancing in Lions: reasons and outcomes of sexual segregation in a group living carnivore” for Behaviour, Ecology, Physiology Seminar Series at Bangor University [presentation available [here](#)]
- 2021 Twitter Presentation for ASAB Twitter Conference (#AnimBehav2021) [presentation available [here](#)]
- 2020[#]** Oral Presentation: “Male Coalitionary Behaviour in Lions”, Association for Study of Animal Behaviour (ASAB Virtual) Winter Meeting.
- 2020[#]** Seminar: “Male Coalitionary Behaviour in Lions” for EEB Seminar Series, Dept. of Ecology, Evolution and Behaviour, University of Minnesota
- 2020 Oral Presentation: “Battle of the Sexes: Female Promiscuity in Asian lions”, Ecological Society of America Annual Conference, USA
- 2020[#]** Webinar: “Global Perspectives in Wildlife Conservation: Importance of Ecotourism” Living Earth Team, India. Webinar available [here](#)
- 2019^{*}** Oral Presentation: “Battle of the Sexes: Female Promiscuity in Asian lions”, 14th Ecology and Behaviour Conference, Toulouse, France.
- 2019[#]** Seminar: “Carnivore Social Behaviour & Conservation” at the International Wolf Center, Ely, Minnesota, USA
- 2018[#]** Seminar: “Carnivores in an Ecosystem: The Gir Experience”, Conservation Science Seminar Series, Department of Fisheries, Wildlife and Conservation Biology, University of Minnesota
- 2018[#]** Seminar: “Asiatic lion sociality & conservation”, International Wolf Centre, Minnesota, USA
- 2018 Oral Presentation: “Battle of the Sexes: implications of female promiscuity in Asian lions” Behaviour Congress, International Society for Behavioural Ecology Meeting, MN, USA
- 2017 Oral Presentation: “Social Strategies in Asian Lions”, British Ecological Society Annual Meet: Ecology Across Borders, Ghent, Belgium

- 2017 Oral Presentation: “The Last Stand: Finding a New Home for Asian Lions”, Students’ Conference in Conservation Science, Cambridge, UK
- 2017 Poster presentation selected for Behaviour 2017, IEC & ASAB Joint Meeting, Estoril, Portugal
- 2017# Seminar: “Asian Lion Sociality & Interactions with Humans”, Zoological Society of London Seminar Series, UK
- 2017* Oral presentation: “Implications of Long-Term Monitoring of Lions for their Conservation” at XXXI Annual Research Seminar, Wildlife Institute of India
- 2016* Oral presentation: “Social Strategies in Asian Lions”, XXX Annual Research Seminar, Wildlife Institute of India
- 2016 Oral Presentation: “Biomass Models for Tropical Felids & Redefined Conservation Implication”, Young Ecologists Talk and Interact conference, New Delhi, India
- 2015# Seminar: “20 years of lion research”, Workshop on Golden Jubilee Celebration of Gir National Park, Gujarat, India
- 2015* Oral Presentation: “Lions in a Human Landscape: Insights and Implications”, XI Internal Annual Research Seminar, Wildlife Institute of India
- 2014* Oral presentation: “Will Lions Find a New Home: reintroduction potential of Asian lions”, X Internal Annual Research Seminar, Wildlife Institute of India
- 2013 Poster presentation: “Adding Costs to Predation by Relating Scats to Consumption”, Students’ Conference in Conservation Science, Bangalore, India
- 2013* Oral presentation: “Adding Costs to Predation by Relating Scats to Consumption”, XXVII Annual Research Seminar, Wildlife Institute of India

INVITED TEACHING SEMINARS & PANELS

- 2024 Guest Lecture “Asian Lions: Conservation Success and Complexities”, Zoological Applications and Advances Course, Nottingham Trent University, UK
- 2023 Guest Lecture “Competition and Alliance in Male Lions”, Evolutionary Behavioural Ecology Course, Utah Valley University, USA
- 2023 Guest Lecture “Behavioural Ecology & Conservation of Lions”, Principles of Wildlife Management Course, Department of Fisheries, Wildlife & Conservation Biology, University of Minnesota, USA
- 2023 Guest Lecture/Seminar: “Mating Systems in Lions”, Animal Behaviour undergrad Course, Aurora University, IL, USA
- 2023 Guest Lecture/Seminar: “Conservation in the Anthropocene”, Principles of Conservation Biology Undergrad Course, Fisheries, Wildlife & Conservation Biology Department, University of Minnesota
- 2023 Guest Seminar & Interaction: “Battle of the Sexes: Consequences of Female Promiscuity Asian Lions”, Animal Behaviour Undergrad Course, Department of Biological Sciences, University of Pittsburg
- 2022 Panellist for ‘Careers Panel for Principles of Wildlife Management’ undergrad+grad course at South Dakota State University
- 2022 Guest Seminar: “Wolf Predation & Human Interactions”, undergrad course on mammalogy, Michigan Tech University, USA
- 2022 Guest Seminar: “Sexual Segregation and Plasticity in Mating Strategies” for undergraduate Ecology course, Oxford Brookes University, UK
- 2022 Guest Seminar: “Lion Sexual Segregation”, Department of Biology, University of Northern British Columbia
- 2021 Guest Seminar: “Carnivore Conservation in the Anthropocene”, MS Program in Wildlife Sciences, National Centre for Biological Sciences, India
- 2020 Guest Seminar: Perspectives of Wildlife Conservation from the Global South”, Principles of Conservation Biology Undergrad Course, Fisheries, Wildlife & Conservation Biology Department, University of Minnesota
- 2017 Guest Seminar: “Wildlife Conservation Careers”, Presidency University, Kolkata, India

OTHER CONFERENCE ACTIVITIES

- 2023 **Session Chair**, Behavior Session, 13th International Mammalogical Congress, Alaska
- 2023 **Session Chair**, Foraging & Movement Session, 2nd Animal Behaviour Twitter Conference, Association for the Study of Animal Behaviour
- 2022 **Moderator, Session - Flexible Together: behavioural plasticity & sociality**, Animal Behaviour Society Annual Conference 2022, Costa Rica
- 2022 **Abstract Reviewer**, International Wolf Symposium, MN, USA
- 2021 **Session Chair**, ‘Foraging’ Session, ASAB Global Twitter Conference (#AnimBehav2021)
- 2021 **Abstract Reviewer**, Ecological Society of America Meeting 2021

SUPERVISED STUDENT PRESENTATIONS

- 2023** Oral Presentation, “The Lion’s Share: Implications of carnivore diet on endangered herbivores”, for International Mammalogical Congress, American Society of Mammologists, Alaska, USA *Presenter is a UG student*
- 2023** Poster Presentation, “Eat Prey Live: Role of Forage and Wolf Predation in Shaping Beaver Activity”, for Animal Behaviour Society Conference, Portland, Oregon, USA *Presenter is a UG student & Winner of the Animal Behavior Society Charles Turner Award for Excellent Undergraduate Research*
- 2023** Oral Presentation, “What’s on the menus for Tsavo Lions”, for Winchell Symposium for Undergraduate Research, Minnesota Academy of Sciences, Minnesota, USA *Presenter is a UG student*
- 2023** Oral Presentation, “Eat Prey Live: Role of Forage and Wolf Predation in Shaping Beaver Activity”, for Winchell Symposium for Undergraduate Research, Minnesota Academy of Sciences, Minnesota, USA *Presenter is a UG student*
- 2022** Poster Presentation, “What’s on the menus for Tsavo Lions”, for Summer Research Showcase, Macalester College, USA *Presenter is a UG student*

WORKSHOPS

*Conducted, †Attended

- 2023 A guide to inclusive mentoring, Workshop at the Animal Behavior Society Meeting, Portland,
- 2021† Teaching Sexual Selection Inclusively, [Project Biodiversify](#),
- 2021† Students Perspective about Diversity in Skills Development for Fieldwork, Ecological Society of America
- 2018* Reconciling Human Interactions with Wildlife in the Kanchenjunga Landscape in India, Nepal and Bhutan; Siliguri, India
- 2018* Writing Workshop for the development of National Action Plan for Human Wildlife Conflict Mitigation in India
- 2017† A practical design to social survey design by Dr. Freya St. John (Kent, UK), held at Cambridge, UK
- 2017† Designing a research program by Prof. William J. Sutherland, Cambridge, UK
- 2017* How to make effective presentations as part of the ICECAPS Polar Research Workshop, India
- 2016* Radio-telemetry workshop as part of the Young Ecologists Talk and Interact conference, Delhi, India
- 2013† Conservation of semi-arid savanna grasslands and their associated fauna at SCCS, Bangalore, India
- 2013† Capture, handling and radio-telemetry of large carnivores by Prof. Kay Holekamp, SCCS, Bangalore, India
- 2013† Effective study design by Dr. Kavita Isvaran, SCCS, Bangalore, India

TEACHING

*Ongoing

- 2024*: **Professor and Course Developer:** Senior Level Undergraduate Course with Lab ‘Wildlife Monitoring Techniques’, Macalester College (BIOL/ENVI 385, 4 Credits), USA [14 students, 3rd and 4th years]
- 2023: **Professor and Course Developer:** Senior Level Undergraduate Course with Lab ‘Animal Behavior: Fundamentals & Applications’ (BIOL/ENVI 394-01, 4 Credits) [*course evals available on request*] [16 students, 3rd and 4th years]
- 2023: **Professor/Instructor:** Core/Intro Undergraduate Course ‘Ecology and the Environment’ (BIOL/ENVI 170-02, 4 Credits) [*course evals available on request*] [28 students, 1st and 2nd years]
- 2023: **Professor/Instructor:** Core/Intro Undergraduate Course ‘Ecology and the Environment’ (BIOL/ENVI 170-02, 4 Credits) [*course evals available on request*] [25 undergraduate students, 1st and 2nd years]
- 2023: **Professor and Course Developer:** Senior Level Undergraduate Course with Lab ‘Wildlife Monitoring Techniques’, Macalester College (BIOL/ENVI 394-02, 4 Credits) [*course evals available on request*] [17 students, 3rd and 4th years]
- 2022: **Professor and Course Developer:** Senior Level Undergraduate Course with Lab ‘Animal Behavior: Fundamentals & Applications’ (BIOL/ENVI 394-01, 4 Credits) [*course evals available on request*] [15 students, 3rd and 4th years]
- 2022: **Professor and Course Developer:** Senior Level Undergraduate Seminar Course ‘Wildlife Conservation in the Anthropocene’, Macalester College (BIOL/ENVI 494-03, 4 Credits) [*course evals available on request*] [12 students, 3rd and 4th years]
- 2022: **Professor and Course Developer:** Senior Level Undergraduate Course with Lab ‘Wildlife Monitoring Techniques’, Macalester College (BIOL/ENVI 394-02, 4 Credits) [*course evals available on request*] (15 students, 3rd and 4th years)

2022: Professor and Course Developer: Senior Level Undergraduate Seminar Course ‘Wildlife Disease Ecology’, Macalester College (BIOL/ENVI 494-06, 4 Credits) [*course evals available on request*] (14 students, 3rd and 4th years)

2021: Professor and Course Developer: Senior Level Undergraduate Course with Lab ‘Animal Behavior: Fundamentals & Applications’ (BIOL/ENVI 394-01, 4 Credits) [*course evals available on request*] (11 students, 3rd and 4th years)

2021: Professor and Course Developer: Senior Level Undergraduate Seminar Course ‘Wildlife Conservation in the Anthropocene’ (BIOL/ENVI 494-03, 4 Credits) [*course evals available on request*] (14 students, 3rd and 4th years)

2020: Module Instructor: Animal Behavior & Wildlife Management, Course: FW 4103 (001) Principles of Wildlife Management, Department of Fisheries, Wildlife & Conservation Biology, University of Minnesota (Undergraduate Course, 46 students)

2020: Invited Resource Person for Course: Capture, Immobilization and Handling of Free-Ranging Vertebrates. Department of Fisheries, Wildlife & Conservation Biology, University of Minnesota, FW 5625, Graduate Level Field + Theoretical Course.

2019: **Module Instructor:** Animal Behavior & Wildlife Management, for Course: FW 4103 (001) Principles of Wildlife Management, Department of Fisheries, Wildlife & Conservation Biology, University of Minnesota (Undergraduate Course, >50 students)

2019: **Lead Instructor:** Behavioral Ecology - theory & sampling module, PhD Coursework, Wildlife Institute of India (16 students)

2019: **Instructor:** Human-Wildlife Conflict Module for Diploma Course in Wildlife Science for Indian Forest Service Probationers, Wildlife Institute of India. (Advanced Course for Wildlife Managers, 32 Officers).

2018: **Course Coordinator:** Wildlife Science Course for MSc Forestry (Forest Research Institute University), held at the Wildlife Institute of India, Dehradun (Graduate Course, 10 students)

2017-2018: Lectures on **i) research design, ii) carnivore metabolism, and iii) optimal foraging theory and animal cognition** for XVI MSc course in Wildlife Science at the Wildlife Institute of India (Graduate Course)

2015-2016: Lectures on **i) research design, ii) carnivore metabolism, and iii) optimal foraging theory and animal cognition** for XV MSc course in Wildlife Science at the Wildlife Institute of India (Graduate Course).

SUPERVISION/MENTORSHIP

2024-2025: **Advisor, Undergraduate Honors Thesis**, for Sophie Carpenter, Macalester College: Thesis Title: Spatial and Temporal Correlates of human-carnivore interactions in Tarangire NP, Tanzania.

2023-2027: **Academic Advisor** for Naomi Singer, First Year Undergraduate, Department of Biology, Macalester College

2023: **Summer Research Advisor** for Zoe Lowe, Macalester Biology’ 23

2023: **Summer Research Advisor** for Eliza King, Macalester Biology’ 23

2022-23: **Advisor, Undergraduate Biology Capstone**, for Eleanor Michaud, Macalester College. Capstone Title- Role of Play in Animal Behavior (meta-analysis)

2022-23: **Advisor, Undergraduate Biology Capstone**, for Avery Munster. Capstone Title- Eat, Prey, Live: Effect of wolf predation and forage availability on beaver activity (empirical research)

2022-23: **Advisor, Undergraduate Biology Capstone**, for Eliza King, Macalester College. Capstone Title- Prey Consumption & Preference of Tsavo Lions (empirical research)

2022-23: **Advisor, Undergraduate Biology Capstone**, for Jewel Kerr, Macalester College. Capstone Title: Competition at Bird Feeders (empirical research)

2022-23: **Co-Advisor, Undergraduate Honors Thesis** of Laura Boudinot, University of Minnesota. Thesis Title- Demographic study of lion populations in Lake Manyara and Tarangire National Parks, Tanzania (empirical research)

2022: **Supervision** of Summer Research for Avery Munster, senior Biology undergraduate, Macalester College

2022: **Supervision** of Summer Research for Eliza King, senior Biology undergraduate, Macalester College

2022: Supervision of Independent Study for Ian Smith, senior Biology undergraduate, Macalester College. Project Title: Top carnivore scavenging dynamics at mega-herbivore carcasses (empirical research)

2021-2022: Mentorship and Facilitation of Senior Capstone Project for Ian Smith, Biology Department, Macalester College, USA

2020-2021: Academic Mentor for Nikki Tatton (MS student), Conservation Science Grad Students Peer Mentor Program at the Department of Fisheries, Wildlife & Conservation Biology, University of Minnesota

2019-2021: **Mentorship** of Ellen Candler (PhD researcher), Conservation Science Programme, Department of Fisheries, Wildlife & Conservation Biology, University of Minnesota. Thesis title- The Hunter's Pulse: Non-target consumer use, hunter participation, and prey behavior shift in reference to hunter bait sites

2019-ongoing: **Mentorship** of Aaron Morris & Frederick Odock (PhD Researchers), Conservation Science Program, Department of Fisheries, Wildlife & Conservation Biology, University of Minnesota. Projects: Carrion Ecology of Elephant Carcasses in Tsavo & Habitat Use by Big Tusked Elephants in Tsavo.

2016-2017: **Mentorship of MSc dissertations of XV MS** course in Wildlife Science at the Wildlife Institute of India. I supervised 8 MSc dissertations during my PhD research

DIVERSITY, EQUITY & INCLUSION ACTIVITIES

2024-ongoing: **Member, Diversity Committee**, Animal Behavior Society

2021-ongoing: **Organizing & Mentorship Team**. Animal Behaviour Collective (<https://opencollective.com/animal-behaviour-collective>). We are a collective of animal behaviour researchers (from students to faculty members) committed to the active support of animal behaviour students from working-class and historically excluded communities who are both regularly excluded by traditional scholarship and academic programs, or who require more economic support than those resources cover. We provide microgrants and mentorship

2022-2023: Reviewer for Student Research & Developing Nations Grants, Animal Behavior Society

2022-: Course "Wildlife Conservation in the Anthropocene: An International Perspective" selected for a concentration in Global Indigenous Studies at Macalester College. This concentration includes courses that have relevant discussions and topics pertaining to indigenous knowledge, traditional sciences and community involvement

2021: participated in a workshop on "Teaching Sexual Selection Inclusively" by Project Biodiversify,

2021: participated in a workshop on "Students Perspective about Diversity in Skills Development for Fieldwork", Ecological Society of America

2021-2023: Letter of Recommendation writer for 24 undergraduate students at Macalester

AWARDS & MENTIONS

2023: Career Diversity Award, Animal Behavior Society

2023: Early Career Professional Award, American Society of Mammologists

2023: [Macalester Spotlight \(Lecture Notes\) on Animal Behavior Course](#)

2022: Macalester College Academic Affairs Committee '**Educator of the Year Award**', MN, USA

2022: Fall Course ('21) [Animal Behavior: Fundamentals and Application Featured in Macalester Today magazine](#)

2020: Special Feature of NY Times interview in '**2020 Academic Recap**' (as part of *The Insider*, *CFANS Newsletter*, *FWCB*, *University of Minnesota*).

2018: **Spotlight Focus on Young Scientists**, International Society for Behavioral Ecology Newsletter, Vol 30(2)

2016: Finalist, **British Ecological Society's Elton Prize** for novel contribution to science as a first author in applicant's first paper: **Chakrabarti S**, Jhala YV, Dutta S, Qureshi Q, Kadivar RF, Rana VJ. 2016. Adding constraints to predation through allometric relation of scats to consumption. **Journal of Animal Ecology** 85:660-670

2011-2013: **Best MS Dissertation Project** (Titled: *Computing Biomass Consumption from Scats in Tropical Felids*). Wildlife Institute of India

PROFESSIONAL AFFILIATIONS

2023-present: Member, American Society of Mammologists

2022-present: Member, Animal Behavior Society

2022-present: Member, Minnesota Academy of Sciences

2020-2021: Member, Association for the Study of Animal Behaviour

2020-2021: Member, Ecological Society of America

2018-2022 Member, International Society for Behavioural Ecology

2016-2017: Member, British Ecological Society

MEMBERSHIP, NATIONAL COMMITTEES

2018: Nominated Member (**Wildlife Expert**), Government of India Committee probing sudden lion deaths in Gir, India
2016: Nominated Member, Committee on Asiatic Lion Translocation, Government of India.

PROFESSIONAL SERVICES

2023 - *Invited Reviewer Panelist for National Science Foundation, USA FY24 October Behavioral Systems*

2023 - *Associate Editor, [Journal of Human-Wildlife Interactions](#)*

Topic Editor, Special Issue: New Century Wolf Conservation and Conflict Management, Journal Frontiers in Ecology and Evolution. <https://www.frontiersin.org/research-topics/19980/new-century-wolf-conservation-and-conflict-management>

2022-2023: Reviewer for Student Research & Developing Nations Grants, Animal Behaviour Society.

Invited Referee: Conservation Biology, PeerJ, American Naturalist, Animal Behaviour, Journal of Mammalian Biology, Journal of Animal Ecology, Ecology & Evolution, European Journal of Ecology, Oryx, Acta Ethologica

SCIENCE OUTREACH

2022: [Wildlife Drawing – Asian Lions](#): Led and Hosted fundraising science communication event for the Animal Behaviour Collective

2021: Podcast for [Rewildology](#) on “Asiatic Lion: Dark Past, Successful Present & Unknown Future”. Link [Here](#)

2020- *Voluntary Scientist* for [Skype a Scientist Program](#), a “virtual program that helps connect scientists with teachers, classrooms, groups, and the public all over the globe”

Host, Wildlife Week Quiz (2018) for High School Students at Dehradun. Co-hosted by the *Friends of Doon & Wildlife Institute of India*

Training of >70 ‘*wildlife enthusiasts*’ in wildlife estimation techniques, as part of the 14th Asiatic Lion Census 2015, conducted by the Gujarat Forest Department

MEDIA FEATURES

15. 2023. Published book chapter covered by the [Times of India](#)

14. 2023. Interview based on research paper featured in Atlas Obscura <https://www.atlasobscura.com/articles/secret-lives-of-animals-feeding-on-elephant>

13. 2023. Published paper featured in the Hindustan Times

12. 2023. CAB lab accomplishments highlighted in [Maccolades](#), published by Macalester College

11. 2023. [QnA with Macalester](#): media coverage of published paper in Nature Sustainability

10. 2020. Research paper and Interview featured at the University of Minnesota Home Page <https://twin-cities.umn.edu/news-events/explaining-teamwork-male-lions>

9. 2020. Featured article based on contributed research talk at ESA 2020 <https://www.insidescience.org/news/why-forest-dwelling-lionesses-seek-many-mates>

8. 2020. Interview featured in the New York Times “The Leopard Cub With the Lioness Mom” <https://www.nytimes.com/2020/02/27/science/leopard-lion-adoption.html>

7. 2020. Interview for BBC Radio “How a leopard cub was ‘adopted’ by a lioness mum” <https://www.bbc.co.uk/sounds/play/p086hs7t>

6. 2020. Research Featured in the Smithsonian Magazine. <https://www.smithsonianmag.com/smart-news/bizarre-biological-twist-mother-lion-adopted-leopard-cub-india-180974315/>

5. 2020. Interview featured in Mongabay India “Coexisting with an increasing number of Asiatic lions” <https://india.mongabay.com/2020/05/coexisting-with-an-increasing-number-of-asiatic-lions/>

4. 2019. Research featured in The Hindu “It’s all about the Lion Queen. The pride increases because of her” <https://www.thehindu.com/sci-tech/energy-and-environment/its-all-about-the-lion-queen-the-pride-increases-because-of-her/article28806059.ece>
3. 2019. Research featured in Discovery Magazine “Lion queens of India” <https://www.discovery.com/nature/lion-queens-of-india->
2. 2019. Research featured in National Geographic “How Asiatic lionesses shield their cubs from killer males” <https://www.nationalgeographic.com/animals/2019/04/asiatic-lions-infanticide-cubs/>
1. 2019. Full Length interview feature article in Psychology Today “Who’s the Daddy? For Lion Cubs, It’s Safer Not to Know” <https://www.psychologytoday.com/us/blog/animal-minds/201904/who-s-the-daddy-lion-cubs-it-s-safer-not-know>

RESEARCH TECHNIQUES AND SKILLS

Work Experience: Capture, handling and radio-telemetry of mammals (lions, tigers, wolves, free-ranging dogs, leopards and rhesus macaque); capture and immobilization of zebras and gemsbok, continuous (day-night) monitoring of lions for behavioural observations; feeding experiments on lions, leopards, jungle-cats and, domestic cats; camera-trapping for estimating leopards in Gujarat; line- and vehicle-transects for estimating ungulate populations; interviews and social surveys involving local communities; vegetation sampling and mapping of anthropogenic pressures.

Field Skills: Radio-telemetry and tracking of mammalian carnivores, behavioural observations on mammalian carnivores, primates and mammalian herbivores, feeding trials on carnivores and proficiency in carnivore-metabolism and optimal diet choice, body condition scoring of mammalian carnivores and ungulates, faecal analysis, blood and tissue collection for genetic analysis from mammalian carnivores, ungulates and primates, mark-recapture (field and analytical methods), ungulate population estimation techniques (field and analytical), interviews with local communities

Analytical Skills: Ecological data analysis (frequentist and Bayesian approaches to data modelling using information theoretics, mark-recapture, occupancy, multivariate statistic, social network analysis), GIS for spatial mapping and analyses.

Softwares and Programmes: R, ArcGis, NCSS, SPSS, Vortex, Distance, Mark, Presence, Ucinet.