

Shaili Johri

120 Oceanview Blvd, Pacific Grove, CA 93950.

Email: shailij@stanford.edu, shaili.johri@gmail.com

EDUCATION

2015	Ph.D. Genetics	University of Utah (USA)
2005	M.S. Biochemistry	Maharaja Sayajirao University (INDIA)
2003	B.S. Microbiology	Gujarat University (INDIA)

PROFESSIONAL APPOINTMENTS

January 2020-	Postdoctoral Fellow Hopkins Marine Station, Stanford University Mentor: Barbara Block
August 2019- December 2019	Lecturer San Diego State University
February 2019- May 2019	Lecturer University of San Diego
January 2017- December 2018	Volunteer Research Scientist San Diego State University, Dept. of Biology Mentor: Dr. Elizabeth Dinsdale
April 2015- October 2016	Postdoctoral Fellow University of Washington, Seattle, Center for Conservation Biology Mentor: Dr. Samuel Wasser
2010-2011	Volunteer Field Biologist Tiger Research and Conservation Trust (TRACT) Tadoba Andhari National Park, Nagpur, India.

PUBLICATIONS

(undergraduate* and graduate students** mentored by SJ)

- **Johri S**, Tiwari A**, Kerr EN* and Dinsdale EA. Mitochondrial genome of the Smoothnose wedgefish *Rhynchobatus laevis* from the Western Indian Ocean. *Mitochondrial DNA Part B: Resources (in press)*, 2020.
- **Johri S**, Dunn N, Chapple T, Curnick D, Savolainen V, Dinsdale EA, and Block BA. Mitochondrial genome of the Silvertip Shark, *Carcharhinus albimarginatus*, from the British Indian Ocean Territory. *Mitochondrial DNA Part B: Resources (in press)*, 2020.
- Dunn N, **Johri S**, Curnick D, Chapple T, Savolainen V, Dinsdale EA, and Block BA. Mitochondrial genome of the Silvertip Shark, *Carcharhinus albimarginatus*, from the British Indian Ocean Territory. *Mitochondrial DNA Part B: Resources (in press)*, 2020.
- Doane M, Morris M, Papudeshi B, Allen L, Pande D, Haggerty M, **Johri S**, Dinsdale EA et al., The skin microbiome of elasmobranchs follows phylosymbiosis, but in teleost fishes the microbiomes converge. *Microbiome (in press)*, 2020.
- **Johri S**, Fellows S**, Solanki JB, Busch A*, Livingston I*, Mora M*, Tiwari A**, Cantu A, Goodman A*, Morris M, Doane MP, Edwards RA, Dinsdale EA. Mitochondrial genome to aid species delimitation and effective conservation of the Sharpnose Guitarfish (*Glaucostegus granulatus*). *Meta Gene*, 2019; doi: <https://doi.org/10.1016/j.mgene.2020.100648>

- **Johri S**, Solanki JB, Fellows S**, Cantu A**, Moreno I*, Vyas A, Edwards RA, Dinsdale EA. Genome skimming with the MinION hand-held sequencer identifies CITES-listed shark species in India's exports market. *Nature Scientific Reports*, vol. 9, no. 1, p. 4476, Mar. 2019, doi: <https://doi.org/10.1038/s41598-019-40940-9>
- **Johri S**, Doane M**, Allen L* and Dinsdale EA. Taking advantage of the genomics revolution for biodiversity assessment and monitoring of elasmobranchs. *Diversity*, 11(4), 49, April 2019. doi: <https://doi.org/10.3390/d11040049>
- **Johri S**, Fellows S**, Solanki JB, Busch A*, Livingston I*, Goodman A**, Tiwari A**, Dinsdale EA, et al., Elasmobranch biodiversity surveys at landing sites in India using environmental DNA and DNA barcodes. *iNaturalist* 2019, doi: <https://www.inaturalist.org/observations/shailijohri> (Manuscript in preparation).
- **Johri S**, Dinsdale E and Solanki JB. Molecular assisted identification of sharks, rays and chimaeras at landing sites in India. *F1000Research* 2017, 6:1307.
- **Johri S**, Kelley T, Papudeshi B, Sanders S, Moreno I* and Smith S. Killerwhale metatranscriptome reveals gut microflora capable of metabolizing persistent organic pollutants. (in preparation)
- **Johri S**, Booth R, Wilson T*, Winters M*, and Wasser S. High Resolution Melt Curves as a method of species identification from scat samples containing mixed DNA. (in preparation)

GRANTS AND FELLOWSHIPS

- 2020 Rapid field identification of species and source population of elephants from ivory products for effective ivory trade regulation in Thailand.
World Wildlife Fund- Greater Mekong, Wildlife Crime
- 2020 Exploration of deep-sea shark biodiversity and behavior using eDNA, acoustic telemetry and video surveillance in the Bahamas.
National Geographic Explorer Grant
Collaborators: Austin Gallagher, Camrin Braun, Oliver Shipley, Nicholas Payne, Brennan Philips
- 2019 Global shark microbiome and conservation program.
S. Lo and B. Billings
Collaborator: Elizabeth Dinsdale.
- 2019 Addressing knowledge and non-knowledge barriers to conservation of Chondrichthyes in Gujarat, India.
Society for Conservation Biology-Marine Section, Small Grants Program.
- 2018 Developing genomic methods for identification and population assessment of elasmobranchs.
University Grants Program, San Diego State University.
- 2017 Molecular taxonomic identification of Chondrichthyes in Gujarat, India.
Society for Conservation Biology-Marine Section, Small Grants Program.
- 2016 Elasmobranch biodiversity assessment by molecular identification in Gujarat, India.
Society for Conservation Biology-Marine Section, Small Grants Program.
- 2011 Genetics and Behavior summer course, Cold Spring Harbor Laboratory Fellowship

INVITED SEMINARS

- 2020 “Genomic tracks in the wildlife trade and conservation “ Stanford University, Ecology and Evolution lunch seminar series. (Invited speaker, June 2020).
- 2020 “Taking advantage of the ‘omics’ revolution for monitoring and conservation of wildlife.” Society for Conservation Biology, Webinar Wednesday series. (Invited speaker, February 2020).
- 2019 “Unraveling shark secrets: Sequencing genomes and microbiomes for conservation.” STEM Lecture Series, San Diego Mesa College. (Invited speaker, September 2019).
- 2019 “Taking advantage of the omics revolution to monitor and protect wildlife populations”. Environmental DNA symposium, Aarhus University, Denmark. (Invited speaker, June 2019)
- 2019 “Unraveling shark secrets: MinION sequencing of genomes and microbiomes for conservation research ”. London Calling 2019, London, UK (**Plenary speaker**, May 2019)
Video link: <https://www.youtube.com/watch?v=2mJkyEJpEf0>
- 2019 “Unraveling shark secrets : Sequencing genomes and microbiomes for conservation research ”. Conservation Research Institute, San Diego Zoo and Safari Park (Invited speaker, April 2019)
- 2017 “Novel genetic and metagenomic techniques for health assessment of free ranging marine mammals”. Southern California Marine Mammal Workshop, Newport Beach, CA (Invited speaker, January 2017).

SELECTED CONFERENCE ACTIVITY

- 2019 **Johri S**, Dinsdale EA, Doane M, Solanki J. Community perspectives and portable sequencers for monitoring and conservation of whale sharks. Fifth International Whale Shark Conference, Exmouth, WA, Australia.
- 2018 **Johri S**, Dinsdale EA, Tiwari A, Goodman A, Solanki JB. Mapping ecological distribution of Chondrichthyes in western India. Fifth International Marine Conservation Congress, Kuching, Malaysia.
- 2018 Tiwari A, **Johri S**, Moreno I, Busch A, Livingston I, Kumar C, Bloch F, Dinsdale EA, Solanki JB. Fisheries dependent biodiversity survey of Chondrichthyes in western India. Fifth International Marine Conservation Congress (poster) Kuching, Malaysia.
- 2017 **Johri S**, Dinsdale EA, Solanki JB. Molecular assisted identification of Chondrichthyes in India. International Congress for Conservation Biology (poster) Cartagena, Colombia.
- 2017 **Johri S**, Wasser S, Winters M, Wilson T, Booth R. Novel and noninvasive methods for monitoring carnivore populations and their interactions in terrestrial ecosystems. International Congress for Conservation Biology, Cartagena, Colombia.
- 2016 Wasser S, Lundin J, **Johri S**. Cumulative effects of chinook salmon abundance and toxicants on Southern Resident Killer Whales. Fourth International Marine Conservation Congress, St.John’s, Newfoundland, Canada.

TEACHING

- August-December 2019 Lecturer: Biology 100 (BIOL 100, 6 credits) San Diego State University, CA.
Designed and delivered lectures, selected and designed assignments, prepared exams and mentored a class of 30 undergraduate students.
- February-May 2019 Lecturer: Genomes and Evolution (BIOL 242, 3 credits) University of San Diego, CA.
Designed and delivered lectures, selected and designed assignments, prepared exams and mentored a class of 200 undergraduate students.
- 2012-2014 Teaching assistant: Dev. Biology (300 level, 3 credits) University of Utah, SLC, UT.

MEDIA AND PRESS

- 2019 “Interview on research and conservation efforts for sharks”: KPBS / NPR Evening Edition
<https://www.kpbs.org/news/2019/jul/26/new-genetic-screening-method-sdsu-researchers-aid/>
- 2019 “Handheld sequencer can quickly identify illegal shark fins.” Wildlife Watch, National Geographic.
<https://www.nationalgeographic.com/animals/2019/04/handheld-dna-device-finds-illegal-shark-fins/>
- 2019 “From India to SDSU: A new shark genome.” Newscenter, San Diego State University.
https://newscenter.sdsu.edu/sdsu_newscenter/news_story.aspx?sid=77572
- 2018 “Member Spotlight: Shaili Johri” Society for Conservation Biology.
<https://conbio.org/publications/scb-news-blog/member-spotlight-shaili-johri>
- 2017 “Unregulated fishing could drive sharks to extinction in India.” *The IndianEXPRESS*.
<https://indianexpress.com/article/india/unregulated-shark-fishing-could-drive-them-to-extinction-in-india-expert-4783303/>

SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES

Journal Referee:

Nature Scientific Reports, Frontiers in Marine Biology, OCEANA.

Professional Society memberships:

Society for Conservation Biology, American Elasmobranch Society

Conference organization:

1. Symposium chair: Priorities for conservation of elasmobranch in Asia. Fifth International Marine Conservation Congress, Kuching, Malaysia (2019).
2. Board member and Organizer, Sixth International Marine Conservation Congress, Kiel, Germany (2020).

Mentorship:

Mentored 3 graduate (Asha Goodman (PhD candidate), Brandie White (PhD candidate), Anjani Tiwari (MS)) and 5 undergraduate students (Isabel Moreno (PhD Candidate, University of Houston), Anissa Busch (BS Environmental Science), Isabella Livingston, Emma Kerr, Abigail Turnland (PhD Applicant)).

Outreach and Science Communication:

1. Sustainable shark fisheries initiative: Led outreach, education and exchange programs among fishing communities and graduate/undergraduate students in western India, one of the largest shark fishing community in India.
2. Marine Science Day: Participated in marine science communication and education activities at MSD with 1000+ adult and student members of the public.
3. Brain Awareness Week (BAW): Chaired BAW Utah Chapter (2008-2010), led a team of 100+ university students as part of annual BAW, reached out to 1000+ K-12 students and 300+ adults by conducting educational classes and lectures on science awareness and education.

Diversity, Equity and Inclusion:

Diversity Officer-Society for Conservation Biology (SCB)-Marine Section (January 2019-present). Elected by ~3500 SCB-Marine section members to organize and lead a team of scientists and conservation practitioners to increase diversity in conservation research and practice

Policy: Participated in Environment Policy Workshop, Evans School of Public Policy and Governance (2016), led by Michael Lazarus (Director, Stockholm Env't. Institute) and Matt Steuerwalt (Exec. Director of Policy, Governor WA). Investigated economic and political drivers of environmental policy across nations. Identified key determinants driving stakeholder engagement, policy change and policy implementation in global economies.