

Priyadarshini Chakrabarti, Ph.D. (Zoology)

Research Associate (Post Doc), Honey Bee Lab, Oregon State University
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Insect physiologist working on insect nutrition, ecotoxicology, molecular ecology, insect functional biology and insect neuroethology, using bees (honey bees and bumble bees) as a model system.

Professional experience

Research Associate (Post Doc) – Honey Bee Lab, Oregon State University, Corvallis, Oregon, USA
November 2016 – Present

Postdoctoral Fellow – Department of Zoology and Centre for Pollination Studies, University of Calcutta, Kolkata, India
May 2016 – October 2016

Newton Bhaba PhD Placement Fellow – Institute of Neuroscience, Newcastle University, UK
September 2015 – December 2015

Educational qualifications

Ph.D. (Zoology) – Department of Zoology, University of Calcutta, Kolkata, India
January 2011 – April 2016

DST-INSPIRE PhD Fellow, Dept. of Science & Technology, Govt. of India

Thesis: Phenotypic traits and genetic heterogeneity in natural honey bee populations along an agricultural intensification gradient in Eastern India.

Research Intern – Department of Zoology, University of Calcutta, Kolkata, India
August 2010 – December 2010

Master of Science in Zoology – Department of Zoology, University of Calcutta, Kolkata, India
July 2010 First Class First (Gold medalist)

Bachelor of Science in Zoology (Honors) – Asutosh College, University of Calcutta, Kolkata, India
July 2008 First Class Third (Secured the third highest marks in the University examinations)

Professional trainings undertaken

- Certificated series on teaching by the Center for Teaching and Learning, Oregon State University, 2018
- Oregon State University e-learning course on R statistical software, 2017
- Training in insect neuroethological techniques (which included learning Noldus software, sample preparation and basics in tip recording electrophysiology and performing taste assays on bumble bees) at the Institute of Neuroscience, Newcastle University, UK, 2015
- Training in honey bee behavior and honey bee rearing in laboratory cages at the Indian Institutes of Science Education and Research (IISER), Trivandrum India, 2012

Publication list

* indicates corresponding authorship

I. Peer reviewed (published)

1. **Chakrabarti, P.***, Morre, J.T., Maier, C.S. and Sagili, R.R. (2019) The Omics Approach to Bee Nutritional Landscape. *Metabolomics* 15: 127. (IF 3.167)
2. Topitzhofer, E., Lucas, H.M., **Chakrabarti, P.**, Breece, C., Bryant, V. and Sagili, RR. (2019) Horticulture Assessment of pollen diversity available to honey bees (Hymenoptera: Apidae) in major cropping systems during pollination in the western United States. *Journal of Economic Entomology* 1-9. DOI: 10.1093/jee/toz168. (IF 1.93)
3. **Chakrabarti, P.**, Sarkar, S. and Basu, P. (2019) Pesticide induced visual abnormalities in Asian honey bees (*Apis cerana* L.) in intensive agricultural landscapes. *Chemosphere* 230, 51 – 58. (IF 5.108)
4. Sagili, R.R., Metz, B.N., Lucas, H.M., **Chakrabarti, P.** and Breece, C.R. (2018) Honey bees consider larval nutritional status rather than genetic relatedness when selecting larvae for emergency queen rearing. *Scientific Reports* 8, 7679. DOI:10.1038/s41598-018-25976-7. (IF 4.122)
5. **Chakrabarti, P.**, Sarkar, S. and Basu, P. (2018) Field Populations of Wild *Apis cerana* Honey Bees Exhibit Increased Genetic Diversity Under Pesticide Stress Along an Agricultural Intensification Gradient in Eastern India. *Journal of Insect Science* 18 (3): 1 – 8. (IF 1.446)
6. Smith, B.M., **Chakrabarti, P.**, Chatterjee, A., Chatterjee, S., Dey, U.K., Dicks, L.V., Giri, B., Laha, S., Majhi, R.K. and Basu, P. (2017) Collating and validating indigenous and local knowledge to apply multiple knowledge systems to an environmental challenge: A case-study of pollinators in India. *Biological Conservation* 211(A), 20 – 28. (IF 4.660)
7. **Chakrabarti, P.**, Rana, S., Bandopadhyay, S., Naik, D.G., Sarkar, S. and Basu, P. (2015) Field populations of native Indian honey bees from pesticide intensive agricultural landscape show signs of impaired olfaction. *Scientific Reports* 5, 12504. DOI: 10.1038/srep12504. (IF 4.122)
8. **Chakrabarti, P.**, Rana, S., Smith, B., Sarkar, S. and Basu, P. (2015) Pesticide induced oxidative stress in laboratory and field populations of native honey bees along intensive agricultural landscapes in two Eastern Indian states. *Apidologie* 46(1), 107 – 129. (IF 2.856)

II. Conference proceedings and Book chapters

1. **Chakrabarti, P.***. (2019) Multifactorial Declines In Global Insect Pollinator Populations – Case Studies In Honey Bees. In: A knowledge based volume on Environmental Issues: Approaches and Practices, Syamaprasad College Publication, Kolkata. Volume 1, pp. 20-31. (*Invited peer-reviewed book chapter*). ISBN: 978-81-939266-1-1.
2. **Chakrabarti, P.***. and Sagili, R.R. (2019) 78th Annual Pacific Northwest Insect Management Conference, Section II: Bees and Pollinators, 2019 Research Reports.

3. **Chakrabarti, P***. and Sagili, R.R. (2018) Sterol nutritional physiology in honey bees. Proceedings of the 2018 American Bee Research Conference, Bee World, April 17th 2018.

4. **Chakrabarti, P***. and Sagili, R.R. (2018) 77th Annual Pacific Northwest Insect Management Conference, Section II: Bees and Pollinators, 2018 Research Reports.

5. **Chakrabarti, P***, Rana, S., Bandopadhyay, S., Naik, D.G., Sarkar, S. and Basu, P. (2018) 77th Annual Pacific Northwest Insect Management Conference, Section II: Bees and Pollinators, 2018 Research Reports.

6. Basu, P., Bhattacharya, R. and **Chakrabarti, P.** (2017) Pollination crises in the agro-ecosystems of the tropics: challenges and way forward. In G. Poyyamoli (Ed) Agroecology, ecosystems and sustainability in the tropics. Studera Press, New Delhi. (*Invited peer-reviewed book chapter*).

7. Basu, P. and **Chakrabarti, P.** (2015) Sub lethal effects of pesticides on pollinators with special focus on honey bees. In P.A. Sinu and K.R. Shivanna (Eds) Mutualistic interaction between flowering plants and animals. Manipal University Press, Manipal. ISBN: 978-93-82460-26-8. Link: <http://mup.manipal.edu/>. (*Invited peer-reviewed book chapter*).

8. Basu, P. and **Chakrabarti, P.** (2015) Pesticides and the Muted Buzz of the Bees. In Biswas, S., Mitra, M.K. and Bar, R. (Eds) Environmental impacts on health: towards a better future. Kolkata Readers Service, Kolkata. ISBN: 9789382623511. (*Invited peer-reviewed book chapter*).

III. Extension publications (single authorship) and others (podcast)

1. Phytosterols – the understudied micronutrients in bee nutrition. The Bee Line by the Oregon State Beekeepers' Association August 2019 issue.

2. Phytosterols – the understudied micronutrients in bee nutrition. WAS Journal by the Western Apicultural Society August 2019 issue.

3. A review of the sublethal impacts of pesticides on native Indian pollinators – case studies in honey bees. Sujalam Safalam May 8th, 2019.

4. OSU Pollination Podcast <http://blogs.oregonstate.edu/pollinationpodcast/2019/02/18/dr-priyadarshini-chakrabarti/>. February 2019.

5. The Many Faces Of Conservation in Wildlife, October 2017
<http://bsedkolkata.org.in/emagazine/wildlife/38-the-many-faces-of-conservation>.

6. Food security in agriculture in Food Safety, May 2016 <http://bsedkolkata.org.in/emagazine/food-safety/27-food-security-in-agriculture>.

7. The vanishing honey bees in www.livestories.com – an online magazine
<http://livestories.com/2014/06/24/vanishing-honey-bees/>. June 2014.

8. Story of the vanishing pollinators – honey bees in Sujalam Sufalam, Issue number 2, April – June, 2013.

9. The invisible world in Sujalam Sufalam, edition Wildlife Conservation. Issue number 3, October – December, 2013.

Presentations to peers

I. Invited talks

- **Chakrabarti, P.** and Sagili, R.R. Tillamook Beekeepers' Association monthly meeting, upcoming April 14th 2020, Tillamook, Oregon, USA.
- **Chakrabarti, P.** The annual "Insights Into Gardening" seminar at the LaSells Stewart Center, Oregon State University, upcoming February 8th, 2020.
- **Chakrabarti, P.** and Sagili, R.R. The impacts of sterol inhibitory fungicides on honey bees. Upcoming meeting of the Entomological Society of America, St. Louis, MO, USA, 2019. (Co-chair, organizer and moderator of the symposium).
- **Chakrabarti, P.** and Sagili, R.R. Oregon State Beekeepers' Association 2019 Fall Conference, Oregon, USA (upcoming meeting in October 2019).
- **Chakrabarti, P.** and Sagili, R.R. Columbia Gorge Beekeepers' Association monthly meeting, Oregon, USA, 2019. <http://www.gorgebeekeepers.org/importance-of-sterols-in-honey-bee-nutritional-physiology/>).
- **Chakrabarti, P.** Invited to speak at the artist reception at LaSells Stewart Center, OSU, for the art exhibit "Pre-Farm to Table – A Bee's Work" in September, 2019.
- **Chakrabarti, P.** and Sagili, R.R. Central Coast Beekeepers' monthly meeting, Newport, Oregon, USA, 2019.
- **Chakrabarti, P.** and Sagili, R.R. The omics approach to bee nutritional landscape. Pacific Branch annual meeting of the Entomological Society of America, San Diego, California, USA, 2019. (Co-chair, organizer and moderator of the symposium).
- **Chakrabarti, P.** and Sagili, R.R. Tualatin Valley Beekeepers' monthly meeting, North Plains, Oregon, USA, 2019.
- **Chakrabarti, P.** and Sagili, R.R. Portland Urban Beekeepers' monthly meeting, Portland, Oregon, USA, 2019.
- **Chakrabarti, P.** and Sagili, R.R. California State Beekeepers' Association 2018 Annual Convention, California, USA.
- **Chakrabarti, P.** and Sagili, R.R. Oregon State Beekeepers' Association 2018 Fall Conference, Oregon, USA.
- **Chakrabarti, P.** and Sagili, R.R. Willamette Valley Beekeepers' Association monthly meeting, Salem, Oregon, USA, 2018.
- **Chakrabarti, P.** and Sagili, R.R. Linn Benton Beekeepers' Association monthly meeting, Corvallis, Oregon, USA, 2018.
- **Chakrabarti, P.** Webinar series for California Master Beekeeper Program, 2018.
- **Chakrabarti, P.** University of Oregon, Eugene, USA, 2017.
- **Chakrabarti, P.** "Generation Next Focus" meeting hosted by the British Deputy High Commission in Kolkata, India, 2016.
- **Chakrabarti, P.** Okinawa Institute of Science & Technology, Japan, 2016.
- **Chakrabarti, P.** "Panel Discussion on Neuroaesthetics and Beauty" hosted by the British Deputy High Commission in Kolkata, India, 2016.
- **Chakrabarti, P.** Queen Mary University of London, UK, 2015.

II. Oral presentations

- **Chakrabarti, P.** and Sagili, R.R. American Bee Research Conference by American Association of Professional Apiculturists, USA, upcoming in 2020.
- **Chakrabarti, P.** and Sagili, R.R. 2019 Fall Seminar Series, Department of Horticulture, Oregon State University, USA.
- **Chakrabarti, P.** Joint UO/OSU Diversity Training Workshop and Research Symposium, Eugene, Oregon, USA, 2019
- **Chakrabarti, P.** and Sagili, R.R. 78th Annual Pacific Northwest Insect Management Conference, Portland, Oregon, USA, 2019.
- **Chakrabarti, P.** and Sagili, R.R. American Bee Research Conference by American Association of Professional Apiculturists, Phoenix, Arizona, USA, 2019.
- **Chakrabarti, P.** and Sagili, R.R. American Bee Research Conference by American Association of Professional Apiculturists, Reno, Nevada, USA, 2018.
- **Chakrabarti, P.** and Sagili, R.R. 77th Annual Pacific Northwest Insect Management Conference, Portland, Oregon, USA, 2018.
- **Chakrabarti, P.**, Sarkar, S. and Basu, P. 77th Annual Pacific Northwest Insect Management Conference, Portland, Oregon, USA, 2018.
- **Chakrabarti, P.** and Sagili, R.R. 2018 Fall Seminar Series, Department of Horticulture, Oregon State University, USA.
- **Chakrabarti, P.** and Sagili, R.R. 2017 Fall Seminar Series, Department of Horticulture, Oregon State University, USA.
- **Chakrabarti, P.**, Sarkar, S. and Basu, P. First meeting of the UK – India Initiative in Agroecology by the British Ecological Society and Society for Agroecology, India, 2015.
- **Chakrabarti, P.**, Sarkar, S. and Basu, P. “Pollinators in Agriculture” conference organized by Association of Applied Biologists at Brussels, Belgium, 2014.
- **Chakrabarti, P.**, Sarkar, S. and Basu, P. INTECOL, London, UK, 2013.

III. Poster presentations

- Morr , J.T., **Chakrabarti, P.**, Oppenheimer, D., Sagili, R.R. and Maier, C.S. 67th Conference on Mass Spectrometry and Allied Topics, Atlanta, Georgia, 2019.
- Oppenheimer, D., Morr , J.T., **Chakrabarti, P.**, Sagili, R.R. and Maier, C.S. Oregon Academy of Sciences, Oregon, 2019.
- Yang, L., **Chakrabarti, P.**, Sagili, R.R. and Maier, C.S. 66th Conference on Mass Spectrometry and Allied Topics, San Diego, California, 2018.
- **Chakrabarti, P.** and Sagili, R.R. 6th Annual Post Doc Research Symposium and Vendor Show organized by OSU Post Doctoral Association, Oregon State University, USA, 2017.
- **Chakrabarti, P.**, Sarkar, S. and Basu, P. 6th Annual Post Doc Research Symposium and Vendor Show organized by OSU Post Doctoral Association, Oregon State University, USA, 2017.
- **Chakrabarti, P.**, Sarkar, S. and Basu, P. Joint Annual Meeting of the British Ecological Society and Soci t  Fran aise d’Ecologie, Lille, France, 2014.
- **Chakrabarti, P.** and Homechaudhuri, S. Young Ecologists Talk and Interact (YETI), Bangalore, India, 2010.

IV. Workshop/Symposium organization

- **Co-Chair and organizer** of an accepted upcoming symposium for the International Congress of Entomology to be held in July, 2020 in Helsinki, Finland.

- **Co-Chair, moderator and organizer** of an accepted upcoming symposium for the annual meeting of the **Entomological Society of America** to be held in November, 2019 in **St. Louis, MO**.
- 8th Annual Post Doc Research Symposium and Vendor Show, **Oregon State University, USA**, October 2019.
- **Co-Chair, organizer and moderator** of a symposium for the **Pacific Branch meeting of the Entomological Society of America** held in April, 2019 in **San Diego, CA**.
- 7th Annual Post Doc Research Symposium and Vendor Show, **Oregon State University, USA**, 2018.
- “Scientific writing in agroecology” organized by the **Indo-Norwegian Cooperation Programme (INCP)**, 2016.
- Helped organize and participated in 3-day workshop “Action learning in agroecology” organized by the **Indo-Norwegian Cooperation Programme (INCP)**, 2015.
- Helped organize and participated in the first meeting of the **UK – India Initiative in Agroecology by the British Ecological Society and Society for Agroecology**, India, 2015.

V. Participation in Seminars

- PNW Pollinator Summit & Conference, Oregon, USA, 2019.
- Oregon State Beekeepers Association Fall Conference, Oregon, USA, 2017.
- American Bee Research Conference by American Association of Professional Apiculturists, Galveston, Texas, USA, 2017.
- Zoology Colloquium organized by the Department of Zoology, University of Calcutta, 2016.
- National Level Young Scientists Meet: Hiralal Chaudhuri Commemorative Conference” organized by the Zoological Society Kolkata and Department of Zoology, University of Calcutta, 2016.
- University Grants Commission’s 1-day seminar on “Advanced Seminar on Research Updates: 2015” organized by Department of Zoology, University of Calcutta, Kolkata, India, 2015.
- “Research Updates” organized by and held at Dept. Of Zoology, University of Calcutta, India, 2014.
- 1-day seminar on Ecological Modeling & Analyses held at Dept. of Zoology, University of Calcutta, India, 2014.
- Spring Talks @ CU Zoology, organized by and held at Dept. of Zoology, University of Calcutta, India, 2013.
- 100th Indian Science Congress, held at University of Calcutta, India, 2013.

VI. Participation in Workshops

- Joint UO/OSU Diversity Training Workshop and Research Symposium, Eugene, Oregon, USA, 2019
- “Intro to Qualtrics - Making Great Surveys” workshop organized by Oregon State University Valley Library, Oregon, USA, 2017.
- “Statistics Basics with SPSS” workshop organized by Oregon State University Valley Library, Oregon, USA, 2017.
- “SPSS Intermediate” workshop organized by Oregon State University Valley Library, Oregon, USA, 2017.
- “Basic and Intermediate Endnote” workshop organized by Oregon State University Valley Library, Oregon, USA, 2017.
- “Advanced Qualtrics” workshop organized by Oregon State University Valley Library, Oregon, USA, 2017.
- Honey bee workshop and honey bee artificial insemination workshop organized by the Okinawa Institute of Science & Technology, Japan, 2016.
- 3-day workshop on Application of Statistics in Life Sciences, organized by Zoological Society, Kolkata and Dept. of Zoology, University of Calcutta in collaboration with Indian Association for Productivity, Quality and Reliability, India, 2013.

- 4-day India - UK scientific seminar held at Trivandrum, Kerala on Biology of Tropical Pollination: From Individuals to Networks organized by DST, India and Royal Society, UK, 2013.
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Teaching and advising

- **2019**

1. **Mentorship** to seven undergraduate student interns in the OSU Honey Bee Lab. Trained them in hive evaluation techniques, conducted a field experiment on comparing different hive evaluation methods and currently working on data analyses and publication of the research results with the undergraduate students.

2. **Mentor** to a graduate student from the Dept. of Microbiology in insect physiology techniques.

3. **Mentor** to Honey Bee Lab two graduate students.

4. **Invited guest lecture – Chemeketa Community College, Salem, Oregon, USA** (May 21st, 2019)
Invited to speak on the novel techniques in molecular entomology research.

5. **Teaching assistant ENT 322, Oregon State University**

Teaching assistant for the online E-campus course on Canvas “Honey Bee Biology & Beekeeping”, Fall Term 2019, Oregon State University.

- **2018**

Teaching assistant ENT 322, Oregon State University

Teaching assistant for the in-class course “Honey Bee Biology & Beekeeping”, Spring Term 2018, Oregon State University. Along with teaching in class, I assisted in grading the examinations and assignments.

- **2017**

Teaching assistant ENT 322, Oregon State University

Teaching assistant for the online E-campus course on Canvas “Honey Bee Biology & Beekeeping”, Fall Term 2017, Oregon State University. I spent **10 hours every week** throughout the entire term. Along with teaching, I also evaluated student projects and graded the examinations and assignments.

- **2015**

Developed and taught module 4 (Threats to pollinators) at the 6 months certificate course on pollination biology at the Centre for Pollination Studies, University of Calcutta. Along with teaching the module, my responsibilities were to define and develop the lectures and courses for module 4, guide the graduate students in understanding the various threats to pollinators and encourage them in understanding the multifactorial stressors affecting global pollinators. A section of the lecture was also dedicated to using various physiological techniques in understanding the impacts of the various stressors on individual bee physiology. I formulated questions for examinations and also evaluated course examination answer scripts. I spent **5 hours every week for 6 months**.

- **2014**

Mentored one graduate student intern at the Ecology Research Unit, University of Calcutta. I guided and trained the student in various techniques pertaining to insect physiology and behavior using bees as a model system. I also helped the student to develop various skills for conducting field studies. In addition, I trained the student in diverse ecotoxicological experimental skills. I guided the student into achieving great results in the experiments. The student published with us and is now pursuing PhD in a related field in University of Tennessee (Knoxville). Hours spent **25 hours every week for one year**.

- **2013 – 2015**

Mentored three M.Sc. (Zoology) Ecology special paper students each year in insect physiology, biology and behavior (using honey bees as a model system) at the Ecology Research Unit, Department of Zoology, University of Calcutta. My responsibilities were to encourage students in understanding the uniqueness of the honey bee model system, develop their skills in insect physiology and behavior, guide them through the experiments and most importantly develop their troubleshooting skills. Four of the five students are pursuing their PhD in related fields now. Hours spent **12 hours every week for 2 years**.

- **August, 2010 – July, 2012**

Guest lecturer in Zoology (Hons.), Asutosh College, University of Calcutta, 92 Shyamaprasad Mukherjee Road, Kolkata 700026, India.

My responsibilities were to develop insect physiology and animal behavior courses for the undergraduate honors lectures, deliver lectures on subjects pertaining to insect physiology, animal behavior, ecology, developmental biology and ecotoxicology. I maintained strong communications with the undergraduate students mentored them as needed. I also evaluated the examination answer scripts. Classes taught for **8 hours every week for 2 years**.

Relevant training undertaken

2018: Certificate course completed

Tuesday Teaching Talks organized by the Oregon State University Center for Teaching and Learning.

2017: Family Educational Rights and Privacy Act (FERPA) training successfully completed, Oregon State University.

Grants (does not include grants currently under review)

Research grants

- 2019: **Co-PI** for the grant awarded by the **British Ecological Society** (\$4000).
- 2019: **PI** for the **grant awarded** by **The California State Beekeepers' Association (CSBA)** 2019 grant cycle for the amount of **\$24,100**.
- 2019: **Co-PI** for the **grant awarded** by **Project Apis m.** 2019 on behalf of the National Honey Board for a total grant amount of **\$51,800**.

- 2018: **Co-PI** for the **grant awarded by Project *Apis m.*2018** on behalf of the National Honey Board for a total grant amount of **\$80,748**.
- 2018: **PI** for the grant **successfully funded by The California State Beekeepers' Association (CSBA)** 2018 season for grant amount of **\$20,052**.
- 2018: Contributed to writing all sections of the grant and conducted pilot studies for the successfully awarded **Agricultural Research Foundation (ARF) Competitive Grants, Oregon State University**, for an award amount of **\$12,360**.
- 2013: **The Council for Scientific and Industrial Research, Govt. of India**, successfully funded the proposal for a total value of **INR 20,00,000(~\$32,000)**. Contributed to conducting pilot studies and writing all sections of the grant.

Travel grants

- 2019: **Postdoc Travel Award** (\$1000) for attending American Bee Research Conference 2020, awarded by the American Association of Professional Apiculturists (AAPA).
- 2019: **Program Enhancement Fund** (\$400) for travel and **complimentary registration** (\$500) to attend the annual ESA meeting in 2019 by the Entomological Society of America.
- 2016: **Complete funding** for attending workshop and presenting a talk at the **Ecology & Evolution Unit, OIST**, Okinawa, Japan, 2016 (included visa fees, airfares, daily allowance etc.) (\$5000).
- 2015: Travel grant by the **Department of Science & Technology, Govt. of India**, to pursue research at the Institute of Neuroscience, Newcastle University, UK for an amount of INR 93,000 (\$1300).
- 2014: **Association of Applied Biologists** special travel grant to present a platform talk at the "Pollinators in Agriculture" conference organized by Association of Applied Biologists at Brussels, Belgium from 01-03 April, 2014 for a total award amount of £1000 (\$1285).
- 2014: **Endowment Foreign Scholarships/Fellowships** travel grant by the **University of Calcutta** for the year 2014 for an amount of INR 75,000 (\$1100).
- 2013: **Parkyn – Bursary** special focal student award from the **British Ecological Society (BES)** to attend and present a talk at INTECOL, 2013 at London, UK for an amount of £750 (\$950).
- 2013: **University of Calcutta** international travel grant 2013 for an amount of INR 50,000 (\$700).

Fellowships, awards and distinction

- **Postdoctoral Excellence Award, Oregon State University, September 2019**. This is a very prestigious award by the OSU Faculty Senate, given to postdocs for their exceptional contributions to their research field, to OSU and to the greater postdoctoral community.

- **Postdoctoral Scientist Award** and invitation to the **Oregon State University Chapter of The Honor Society of Phi Kappa Phi, April 2019**. This is a prestigious award, only given to two OSU post-doctoral candidates annually. Initiation to Phi Kappa Phi, the nation's oldest and largest all-discipline honor society, is highly prestigious and by invitation only.
- Nominated as a **Full Member** to **Sigma Xi, The Scientific Research Honor Society**, February 2018.
- **Royal Society Newton International Post Doctoral Fellowship** November, 2016 (having already started working at Oregon State University, I declined this). This is a highly competitive and prestigious fellowship. Only 40 researchers are awarded all across the world every year.
- **Newton – Bhaba PhD Placement Fellowship** for pursuing research at the Newcastle University, UK at the insect neuroethology laboratory from September to December, 2015. **Complete funding** for 3 months which included airfare, visa, travel costs, fellowship, University bench fees, consumables etc. Only 26 Indians were awarded out of a total of 116 finalists in 2014-2015 grant cycle.
- **Parkyn-Bursary focal student researcher appreciation** at the INTECOL, 2013 meeting in London, UK by the British Ecological Society.
- **Sudev Bhushan Ghosh Young Scientist Award** by Zoological Society, Kolkata, 2012-2013.
- Awarded the prestigious **DST-INSPIRE Fellowship** for pursuing PhD, March 2011, by **Department of Science & Technology (DST), Government of India. I received complete funding for 5 years (fellowship and contingency)**. This is a highly competitive fellowship, awarded to only a few selected gold medalists across all the Indian universities.
- **First Class First – Gold medalist – University of Calcutta**, Master of Science (Zoology), 2010. Secured the highest marks in the M.Sc. Zoology examination at the University of Calcutta.
- **K. C. Ghose Memorial Medal** awarded by the Zoological Society, Kolkata, 2010.
- **First Class Third – University of Calcutta**, Bachelor of Science, Zoology (Hons.), 2008. Secured the third highest marks in the B.Sc. (Hons.) Zoology examination, University of Calcutta.
- **Distinction Award** for scoring the highest in the Zoology Department, Asutosh College, 2008 in the Zoology Honors examination, University of Calcutta.

Outreach and Extension

- September 2019 – OSU Honey Bee Lab volunteer at Corvallis Environmental Center for a 3-part educational program on pollinators for Pre-Kindergarten-1st grade students, Corvallis OR.
- April, 2019 – OSU Honey Bee Lab volunteer for Glory Bee Weekend, Eugene OR.
- January, 2018 – Present: Invited to speak at numerous bee groups and beekeeping clubs, as a representative of the OSU Honey Bee Lab.

- January, 2017 – Present: Volunteer at various outreach workshops in schools on behalf of the Honey Bee Lab, Oregon State University.
 - June, 2017 – Volunteer for the “National Pollinator's Week”, participated in survey of the native bees of Corvallis. This was a family-friendly event led by some of the Oregon state's top bee biologists from Oregon State University and Oregon Department of Agriculture held in Corvallis, Oregon, USA.
 - October, 2017 – December, 2017: Staff volunteer at the Corvallis Multicultural Literacy Center, Corvallis, Oregon, USA.
 - 2013 – 2015: Helped organize and participated in various farmer awareness programs, beekeeper trainings and farmer training programs across various Eastern states in India. This project comprised of a large team and was funded by the Darwin Initiative Grant, DEFRA, Govt. of UK, and was coordinated by Prof. Parthiba Basu and Dr. Barbara Smith (University of Calcutta, India and Game & Wildlife Conservation Trust, UK collaboration). The stakeholders involved were government organizations, farmers, beekeepers, various agricultural nonprofit organizations, researchers and policy makers.
 - 2012: Interaction at daylong seminars with schoolchildren to spread environmental and pollinator awareness.
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Professional memberships

- Entomological Society of America (2017 – Present)
 - Honorary membership – Phi Kappa Phi Research Honor Society (2019 – Present)
 - Nominated for a Full membership – Sigma Xi, The Scientific Research Honor Society (2018 – Present)
 - American Association of Professional Apiculturists (2017 – Present)
 - COLOSS Honey Bee Research Association (2018 – Present)
 - International Union for the study of Social Insects, North American Section (2018 – Present)
 - British Ecological Society (2013 – Present)
 - Association of Applied Biologists (2013 – 2014)
 - Zoological Society of Kolkata (Life member)
 - Indian Science Congress (2010 – 2013)
-