

SHALENE JHA

Associate Professor
Department of Integrative Biology
University of Texas at Austin
205 W 24th St., Room 404 - stop C0930
Austin, TX 78712

Phone: 512-232-3521
Fax: 512-232-9529
Email: sjha@austin.utexas.edu
URL: <http://w3.biosci.utexas.edu/jha/>

EDUCATION

University	Major	Degree - Year
Rice University	Biology	BS - 2004
University of Michigan	Ecology & Evolutionary Biology	PhD - 2009
University of California, Berkeley	Ecology, Population Genetics	Postdoc - 2011

ACADEMIC APPOINTMENTS

2017 - present	Associate Professor of Integrative Biology, University of Texas at Austin, TX
2011 - 2017	Assistant Professor of Integrative Biology, University of Texas at Austin, TX
2009 - 2011	UC President's Postdoctoral Fellow, Environmental Science, Policy & Management, University of California, Berkeley, CA
2004 - 2009	Graduate Research and Teaching Assistant, Ecology & Evolutionary Biology, University of Michigan, Ann Arbor, MI

AWARDS & FELLOWSHIPS

2015	College of Natural Sciences Teaching Excellence Award, University of Texas
2013	Billy Carr Distinguished Teaching Fellowship, University of Texas
2013	National Center for Ecological Analysis & Synthesis, Early Career Fellowship
2012	National Science Foundation CAREER Award
2009	UC President's Postdoctoral Fellowship, University of California System
2007	Whittaker Mentoring Fellow, University of Michigan
2006	Helen Olson-Brower Research Fellowship, University of Michigan
2006	Ecological Society of America & National Science Foundation Travel Grant
2006	Bee Course Scholarship, American Museum of Natural History
2004	Julian Huxley Award - Ecology & Evolutionary Biology Scholar, Rice University

RESEARCH SUPPORT

Funded Research Grants

- 2021 - 2023 Knobloch Conservation Grant (Co-PI, \$230,000, UT portion - \$45,000) - Valuing and conserving pollinators in Texas' working landscapes
- 2020 - 2024 National Science Foundation, Population and Community Ecology (Co-PI, \$1,000,000, UT portion - \$480,000) - Reconciling the interaction patterns of highly functional and resistant ecological communities
- 2020 - 2023 US Fish & Wildlife Service, State Wildlife Grant (PI, \$386,000) – Region 2 Grant - Multi-year Investigation of Restoration Impacts on Pollinator Communities & Plant-Pollinator Interactions
- 2020 - 2023 USDA – NIFA Foundational Programs, Sustainable Agroecosystems (Co-PI, \$500,000, UT portion - \$100,000) - Ecological Networks, Management Shifts, and Ecosystem Services In Urban Agricultural Landscapes
- 2020 - 2023 UT College of Natural Sciences Stengl-Wyer (Co-PI, \$350,000, UT portion - \$350,000) - InSTInCT: Inclusive Student Training In Collection and field-based Topics
- 2020 - 2022 US Department of Agriculture, AFRI Foundational Fellowship (PI, \$165,000) – Quantifying herbivore-mediated plant-pollinator interactions for resilient melon production, postdoctoral fellowship for H. Gray
- 2019 - 2023 US Department of Defense, Multidisciplinary University Research Initiative (Co-PI, \$6.25 million, UT portion \$2 million) – Networked Palynology Models of Pollen and Human Systems
- 2019 - 2022 USDA – NIFA Foundational Programs, Pollinator Health Research Coordination Network (Co-PI, \$500,000, UT portion - \$0) - Research Coordination Network - Establishing a national native bee pollinator monitoring program
- 2016 - 2019 US Department of Agriculture, NIFA Foundational Grant (Co-PI, \$500,000, UT portion - \$100,000) - Biodiversity, sustainability, and ecosystem services in urban agricultural landscapes
- 2016 - 2019 US Fish & Wildlife Service, State Wildlife Grant (PI, \$500,000, UT portion - \$400,000) – Region 2 Grant -Southern plains pollinator conservation implementation program
- 2016 - 2019 Texas Parks & Wildlife, Supplement for State Wildlife Grant (PI, \$50,000) – Supplement for Southern plains pollinator conservation implementation program
- 2015 - 2022 Winkler Family Foundation (PI, \$50,000) - Understanding native bee decline
- 2015 - 2017 UT FAPESP Brazil Foundation (PI, \$120,000) - Native bee population genetics in cotton agroecosystems

- 2013 - 2015 US Department of Agriculture, AFRI Foundational Fellowship (PI, \$150,000) - Bumble bee ecology and improved food security, postdoctoral fellowship for S.H. Woodard
- 2012 - 2018 National Science Foundation, CAREER Award (PI, \$720,000) - Colonization, dispersal and foraging ecology of native bees in human-altered landscapes
- 2012 - 2017 Department of Defense, Army Research Office (PI, \$420,000) - Conservation genetics of native bees in human-altered landscapes
- 2012 - 2013 Texas Parks & Wildlife Department, Species of Greatest Concern - Conservation Grants (PI, \$40,000) - Texas bee conservation in urbanizing landscapes
- 2012 - 2013 Texas Parks & Wildlife Department, Horned Lizard License Plate Grants (PI, \$20,000) - Texas pollinator outreach
- 2010 - 2013 National Geographic Society, Committee for Research and Exploration (PI, \$12,000) - Understanding bumble bee population decline

Pending Research Grants

- 2021 - 2025 National Science Foundation Understanding the Rules of Life: Emergent Networks (Co-PI, \$1,400,000, UT portion - \$256,000) - Collaborative Research: Integrating molecular, cellular, organismal and community scales to understand how plants structure pollinator-pathogen dynamics
- 2021 - 2025 National Science Foundation Research Traineeship (Key Contributor, \$500,000, UT portion - \$500,000) - REU: InSTRUCT: Inclusive Student Training in Rapidly Urbanizing Climate-sensitive Terrains
- 2021 - 2023 The Nature Conservancy (Co-PI, ~\$160,000, UT portion - \$40,000) - Optimizing ecosystem services across urbanizing Texas landscapes
- 2021 - 2023 UT College of Natural Sciences Early Career Fellowship Program (Coordinator, ~\$250,000) – Early Career Support for two Integrative Biology Postdoctoral Fellows

Other Grant Support for Graduate Students

- 2015 - 2020 National Science Foundation Graduate Research Fellowship (~\$138,000 for M. O'Connell)
- 2013 - 2018 National Science Foundation Graduate Research Fellowship (~\$132,000 for N. Pope)
- 2016 - 2019 National Science Foundation Dissertation Improvement Grant (~\$13,000 for K. Ballare)
- 2016 - 2019 National Science Foundation Dissertation Improvement Grant (~\$13,000 for S. Cusser)

Other Grant Support for Undergraduate Students

- 2016 Army Research Office, High School Apprenticeship Program (PI, \$12,000)
- 2015 National Science Foundation, Research Experience for Undergraduates (PI, \$7,500)
- 2014 University of Texas Undergraduate Research Fellowship (\$1,000 for S. Cunningham)
- 2013 - 2015 National Science Foundation, Research Experience for Undergraduates (Senior Collaborator with the UT Environmental Science Institute, ~\$10,000 per year)

PUBLICATIONS

Coauthors: † = graduate student, ‡ = undergraduate student, § = postdoc, * = equal contributions

As of May 2021: **Total:** 68, Google Scholar **Citations:** 4184, **h-index:** 26, **i10-index:** 45

Journal 5-year impact factors are in brackets

Journal Papers

Senapathi D., Fründ J., Albrecht M., Garratt M.P.D., Kleijn D., Pickles B.J., Potts S.G., An J., Andersson G.K.S., Bäensch S., Basu P., Benjamin F., Bezerra A.D.M., Bhattacharya R., Biesmeijer J.C., Blaauw B., Blitzer E.J., Brittain C.A., Carvalheiro L.G., Cariveau D.P., Chakraborty P., Chatterjee A., Chatterjee S., Cusser S., Danforth B.N., Degani E., Freitas B.M., Garibaldi L.A., Geslin B., de Groot G.A., Harisson T., Howlett B., Isaacs R., **Jha S.**, Klatt B.K., Krewenka K., Leigh S., Lindström S.A.M., Mandelik Y., Mc Kerchar M., Park M., Pisanty G., Rader R., Reemer M., Rundlöf M., Smith B., Smith H.G., Nunes Silva P., Steffan-Dewenter I., Tschardt T., Webber S., Westbury D., Westphal C., Wickens J.B., Wickens V.J., Winfree R., Zhang H. & A. Klein (2021) Wild insect diversity increases inter-annual stability in global crop pollinator communities. *Proceedings of the Royal Society B* 288: 20210212. DOI:10.1098/rspb.2021.0212 [5.39]

Cusser S.J., Haddad N. & **S. Jha** (2021) Unexpected functional complementarity from non-bee pollinators enhances cotton yield. *Agriculture, Ecosystems and the Environment* 314:107415. DOI: 10.1016/j.agee.2021.107415 [3.99]

Tong D., Grubestic T.H., Mu W., Miller J.A., Helderop E., **Jha S.**, Brosi B.J., & E.A. Bienenstock (2021) Identifying the Spatial Footprint of Pollen Distributions Using the Geoforensic Interdiction (GOFIND) Model. *Computers, Environment and Urban Systems* 87:101615. DOI: 10.1016/j.compenvurbsys.2021.101615 [4.67]

Woodard* S.H., Federman* S., James R.R., Danforth B.N., Griswold T., Inouye D.W., McFrederick Q.S., Morandin L., Paul D., Sellers E., Strange J.P., Vaughan M., Williams N.M., Branstetter M., Burns C., Cane J., Cariveau A., Cariveau D., Childers A.K., Childers C.P., Cox-Foster D.L., Evans E., Graham K., Hackett K.J., Huntzinger K., Irwin R.E. **Jha S.**, Lawson S.P., Liang C., López-Urbe M.M., Melathopolous A., Moylett H., Otto C.R.V., Ponisio L., Richardson L.L., Rose R.I., Singh R. & W. Wehling (2020) Towards a US national program for monitoring native bees. *Biological Conservation* 252:108821. DOI: 10.1016/j.biocon.2020.108821 [4.69]

Philpott S.M., Egerer† M.H., Bichier, P., Cohen† H., Cohen R., Liere H., **Jha S.** & B.B Lin (2020) Gardener demographics, experience, and motivations drive differences in plant species richness and composition in urban gardens. *Ecology and Society* 25:8. DOI: 10.5751/ES-11666-250408 [4.14].

Ballare† K.M. and **S. Jha** (2020) Genetic structure across urban and agricultural landscapes reveals evidence of resource specialization and philopatry in the Eastern carpenter bee, *Xylocopa virginica* L. *Evolutionary Applications* 12:136-149. DOI: 10.1111/eva.13078 [5.04].

O'Connell† M., Jordan‡ Z., McGilvray‡ E., Cohen H., Liere H., Lin B.B., Philpott S.M. and **S. Jha** (2021) Reap what you sow: local plant composition mediates pollinator foraging patterns within urban garden landscapes. *Urban Ecosystems* 24: 391-404. DOI:10.1007/s11252-020-01043-w [2.78].

Cohen† H., Egerer† M.H., Lin B.B., Liere H., Bichier P., Philpott S.M. & **S. Jha** (2021) The relationship between pollinator community and pollination services is mediated by floral abundance in urban landscapes. *Urban Ecosystems* 24: 275-290. DOI: 10.1007/s11252-020-01024-z [2.78].

- Philpott S.M., Lucatero† A., Bichier P., Egerer† M., **Jha S.**, Lin B., and H. Liere (2020) Natural enemy-herbivore networks along local management and landscape gradients in urban agroecosystems *Ecological Applications* 30:e02201. DOI: 10.1002/eap.2201 [4.31].
- Vandermeer J., Armbrrecht I., de la Mora† A., Ennis§ K.K., Fitch† G., Gonthier D.J., Hajian-Forooshani Z., Hsieh H., Iverson§ A., Jackson D., **Jha S.**, Jiménez-Soto E., Lopez-Bautista G., Larsen A., Li K., Liere H., MacDonald A., Marin L., Mathis§ K.A., Monagan I., Morris J.R., Ong T., Pardee§ G.L., Rivera-Salinas I.S., Vaiyda C., Williams-Guillen K., Yitbarek† S., Uno S., Zemenick A., Philpott S.M. & I. Perfecto (2019) The Community Ecology of Herbivore Regulation in an Agroecosystem: Lessons from Complex Systems, *BioScience* 69: 974–996. DOI: 10.1093/biosci/biz127 [6.15]
- Ballare† K.M., Pope† N.S., Castilla§ A.R., Cusser† S.J., Metz R.P., & **S. Jha** (2019) Utilizing field collected insects for next generation sequencing: effects of sampling, storage, and DNA extraction methods. *Ecology and Evolution* 9:13690–13705. DOI: 10.1002/ece3.5756 [2.54]
- Cusser†, S., Neff, J. L., & **S. Jha** (2019) Landscape context differentially drives diet breadth for two key pollinator species. *Oecologia* 191: 873-886. DOI: 10.1007/s00442-019-04543-5 [3.01]
- Dainese§ M., Martin E.A., Aizen M.A., Albrecht M., Bartomeus I., Bommarco R., Carvalheiro L.G., Chaplin-Kramer R., Gagic V., Garibaldi L.A., Ghazoul J., Grab H., Jonsson M., Karp D.S., Kennedy C.M., Kleijn D., Kremen C., Landis D.A., Letourneau D.K., Marini L., Poveda K., Rader R., Smith H.G., Tschamntke T., Andersson G.K.S, Badenhauer I., Baensch S., Bezerra A.D.M., Bianchi F.J.A.A., Boreux V., Bretagnolle V., Caballero-Lopez B., Cavigliasso P., Četković A., Chacoff N.P., Classen A., Cusser S., da Silva F.D., de Groot G.A., Dudenhöffer J.H., Ekroos J., Fijen T., Franck P., Freitas B.M., Garratt M.P.D., Gratton C., Hipólito J., Holzschuh A., Hunt L., Iverson A.L., **Jha S.**, Keasar T., Kim T.N., Kishinevsky M., Klatt B.K., Klein A.M., Krewenka K.M., Krishnan S., Larsen A.E., Lavigne C., Liere H. Maas B., Mallinger R.E., Pachon E.M., Martínez-Salinas A., Meehan T.D., Mitchell M.G.E., Molina G.A.R., Nesper M., Nilsson L., O'Rourke M.E., Peters M.K., Plećaš M., Potts S.G., de L. Ramos D., Rosenheim J.A., Rundlöf M., Rusch A., Sáez A., Scheper J., Schleuning M., Schmack J., Sciligo A.R., Seymour C., Stanley D.A., Stewart R., Stout J.C., Sutter L., Takada M.B., Taki H., Tamburini G., Tschumi M., Viana B.F., Westphal C., Willcox B.K., Wratten S.D., Yoshioka A., Zaragoza-Trello C., Zhang W., Zou Y. & I. Steffan-Dewenter (2019) A global synthesis reveals biodiversity-mediated benefits for crop production. *Science Advances* 5:eaax0121. DOI: 10.1126/sciadv.aax0121 [11.51]
- Cusser† S., Lopez-Uribe M., Zucchi M.I., Young K., Grando† C., Pope† N.S., Ballare† K., Neff J., Almeida E., de Luna D.C. & **S. Jha** (2019) Small but critical: semi-natural habitat fragments promote bee abundance in cotton agroecosystems across both Brazil and the United States. *Landscape Ecology* 34:1825–1836. DOI: 10.1007/s10980-019-00868-x [3.62]
- Ballare† K.M., Neff J.L. & **S. Jha** (2019) Multi-scalar drivers of biodiversity: local management mediates wild bee community response to regional urbanization. *Ecological Applications* 29: e01869. DOI: 10.1002/eap.1869 [4.31]
- Lopez-Uribe* M., Soro* A. & **S. Jha*** (2019) A trait-based approach to predict population genetic structure in bees. *Molecular Ecology* 28: 1919-1929. DOI: 10.1111/mec.15028 [6.33]

- Woodard[§] S.H., Duennes M.A., Watrous K. & **S. Jha** (2019) Diet and nutritional status during early adult life have immediate and persistent effects on queen bumble bees. *Conservation Physiology* 7:coz048 DOI: 10.1093/conphys/coz048 [3.46]
- Lin B.B., Egerer[†] M.H., Liere H., **Jha S.**, Bichier P. & S.M. Philpott (2019) Soil management is key to maintaining soil moisture in urban gardens facing changing climatic conditions. *Scientific Reports* 8:17565. DOI: 10.1038/s41598-018-35731-7 [4.12]
- O’Connell[†] M., Castilla[§] A.R., & **S. Jha** (2018) Bee movement across heterogeneous tropical forests: multi-paternal genetic analyses reveal the importance of neighborhood composition for pollen-mediated gene flow. *Biotropica* 50(6): 908-918. DOI: 10.1111/btp.12603 [2.35]
- Cusser[†] S., Neff J.L. & **S. Jha** (2018) Land-use history drives contemporary pollinator community similarity. *Landscape Ecology* 33:1335-1352. DOI: 10.1007/s10980-018-0668-2 [3.62]
- Egerer[†] M.H., Liere H., Lin B.B., **Jha S.**, Bichier P. & S.M. Philpott (2018) Herbivore regulation in urban agroecosystems: Direct and indirect effects. *Basic and Applied Ecology* 29: 44-54. DOI: 10.1016/j.baae.2018.02.006 [2.14]
- Egerer[†] M.H., Philpott S.M., Bichier, P., **Jha S.**, Liere H. & B.B Lin (2018) Gardener well-being along social and biophysical landscape gradients. *Sustainability* 10: 96. DOI: 10.3390/su10010096 [2.18]
- Egerer[†] M.H., Philpott S.M., Liere H., **Jha S.**, Bichier P. & B.B Lin. People or place? Neighborhood opportunity influences community garden soil properties and soil-based ecosystem services. *International Journal of Biodiversity Science, Ecosystem Services & Management* 14:32-44. DOI: 10.1080/21513732.2017.1412355 [2.23]
- Popet[†] N. & **S. Jha** (2018) Seasonal food scarcity prompts long-distance foraging by a wild social bee. *American Naturalist* 191:45-57. DOI: 10.1086/694843 [4.03]
- Lin B.B., Egerer[†] M.H., Liere H., **Jha S.**, Bichier P. & S.M. Philpott (2018) Local-and landscape-scale land cover affects microclimate and water use in urban gardens. *Science of The Total Environment* 610:570-575. DOI: 10.1016/j.scitotenv.2017.08.091 [5.10]
- Castilla[§] A.R., Rodriguez[‡] M.F., O’Connell[†] M., Treviño L., Popet[†] N., Santos A. & **S. Jha** (2017) Adding landscape genetic & individual traits to the ecosystem function paradigm reveals the importance of species functional breadth. *Proceedings of the National Academy of Sciences* 114:12761-12766. DOI: 10.1073/pnas.1619271114 [10.58]
- Lichtenberg E., Kennedy C.M., Kremen C., Batary P., Berendse F., Bommarco R., Bosque-Pérez N.A., Carvalho L.G., Snyder W.E., Williams N.M., Winfree R., Åström S., Benjamin F., Brittain C., Chaplin-Kramer R., Clough Y., Connelly H., Danforth B., Diekötter T., Eigenbrode S.D., Ekroos J., Elle E., Freitas B.M., Fukuda Y., Gaines-Day H.R., Gratton C., Holzschuh A., Isaacs R., Isaia M., **Jha S.**, Jonason D., Jones V.P., Klatt B., Klein A.M., Krauss J., Letourneau D.K., Macfadyen S., Mallinger R.E., Martin E.A., Martinez E.A., Memmott J., Morandin L., Neame L., Otieno M., Park M.G., Pfiffner L., Pockock M., Ponce C., Potts S.G., Poveda K., Ramos M., Rosenheim J.A., Rundlöf M., Sardiñas H., Saunders M.E., Schon N.L., Sciligo A.R., Sidhu C.S., Steffan-Dewenter I., Tschardt T., Veselý M., Weisser W.W., Wilson J.K. & D.W. Crowder (2017) A global synthesis of the effects of diversified farming systems on arthropod diversity

- within fields and across agricultural landscapes. *Global Change Biology* 16: 584-599. DOI: 10.1111/gcb.13714 [8.44]
- Liere[§] H., **Jha S.** & S. Philpott (2017) Intersection between biodiversity conservation, agroecology, and ecosystem services. *Agroecology & Sustainable Food Systems* 41:723-760. DOI: 10.1080/21683565.2017.1330796 [0.93]
- Ballare[†] K.M., Stevens[‡] L. & **S. Jha** (2017) Reproductive Biology of Three Wildflower Species: Implications of Floral Compatibility Systems and Pollen Limitation for Prairie Restoration. *Rhodora* 119:212-223. DOI: 10.3119/16-23 [0.43]
- Woodard S.H. & **S. Jha** (2017) Editorial overview: Behavioural ecology. *Current Opinion in Insect Science* 21: ix-x. DOI: 10.1016/j.cois.2017.07.004 [3.66]
- Woodard S.H. & **S. Jha** (2017) Wild bee nutritional ecology: predicting pollinator population dynamics, movement, and services from floral resources. *Current Opinion in Insect Science* 21:83-90. DOI: 10.1016/j.cois.2017.05.011 [3.66]
- López-Urbe M.M., Soro A. & **S. Jha** (2017) Conservation genetics of bees: advances in the application of molecular tools to guide bee pollinator conservation. *Conservation Genetics* 18: 501-506. DOI: 10.1007/s10592-017-0975-1 [1.92]
- Pope[†] N. & **S. Jha** (2017) Inferring the foraging ranges of social bees from sibling genotypes sampled across discrete locations. *Conservation Genetics* 18: 645-658. DOI: 10.1007/s10592-017-0975-1 [1.92]
- Schenu[‡] E. & **S. Jha** (2017) High levels of diploidy but low levels of genetic structure, characterize *Bombus vosnesenskii* populations across the Western US. *Conservation Genetics* 18: 597-605. DOI: 10.1007/s10592-016-0900-z [1.92]
- Jaffé[§] R., Pope[†] N., Acosta A.L., Alves D.A., Arias M.C., De la Rúa P., Francisco F.O., Giannini T.C., González-Chaves A., Imperatriz-Fonseca V.L., **Jha S.** & L.G. Carvalheiro (2016) Beekeeping practices and geographic distance, not land use, drive gene flow across tropical bees. *Molecular Ecology* 25:5345-5358. DOI: 10.1111/mec.13852 [6.33]
- Ritchie[‡] A.D., Ruppel R. & **S. Jha** (2016) Generalist behavior describes pollen foraging for perceived oligolectic and polylectic bees. *Environmental Entomology* 45: 909-919. DOI: 10.1093/ee/nvw032 [2.02]
- Cussert[†] S., Neff J.L. & **S. Jha** (2016) Natural land cover drives pollinator abundance and richness, leading to reductions in pollen limitation in cotton agroecosystems. *Agriculture Ecosystems and Environment* 226: 33–42. DOI: 10.1016/j.agee.2016.04.020 [3.987]
- Castilla[§] A., Pope[†] N., Jaffé[§] R. & **S. Jha** (2016) Elevation, not deforestation, promotes genetic differentiation in a pioneer tropical tree. *PLoS ONE* 11: e0156694. DOI: 10.1371/journal.pone.0156694 [4.24]
- Jaffé[§] R., Castilla[§] A., Pope[†] N., Imperatriz-Fonseca V.L., Metzger J.P., Arias M.C. & **S. Jha** (2016) Landscape genetics of a tropical rescue pollinator. *Conservation Genetics* 12: 267-278. DOI: 10.1007/s10592-015-0779-0 [1.92]

- Livingston† G., Waring† B., Pacheco L.F., Gilbert L., Buchori D., Jiang Y. & **S. Jha** (2016) Perspectives on the Global Disparity in Ecological Science. *Bioscience* 66: 147-155. DOI: 10.1093/biosci/biv175 [6.15]
- Castilla§ A., Popel† N. & **S. Jha** (2015) Positive density-dependent reproduction regulated by local kinship and size. *Annals of Botany* 117: 319-329. DOI: 10.1093/aob/mcv170 [4.05]
- Cusser† S., Neff J.L. & **S. Jha** (2015) Land use change and pollinator extinction debt in exurban landscapes. *Insect Conservation and Diversity* 8: 562-572. DOI: 10.1111/icad.12139 [2.11]
- Kleijn D., Winfree R., Bartomeus I., Carvalheiro L.G., Henry M., Isaacs R., Klein A.-M., Kremen C., M'Gonigle L.K., Rader R., Ricketts T., Williams N.M., Adamson N.L., Ascher J.S., Báldi A., Batáry P., Benjamin F., Biesmeijer J.C., Blitzer E.J., Bommarco R., Brand M.R., Bretagnolle V., Button L., Cariveau D.P., Chifflet R., Colville J.F., Danforth B.N., Elle E., Garratt M.P., Herzog F., Holzschuh A., Howlett B.G., Jauker F., **Jha S.**, Knop E., Krewenka K.M., Le Féon V., Mandelik Y., May E.A., Park M.G., Pisanty G., Reemer M., Riedinger V., Rollin O., Rundlöf M., Sardiñas H.S., Scheper J., Sciligo A.R., Smith H.G., Steffan-Dewenter I., Thorp R., Tscharrnke T., Verhulst J., Viana B.F., Vaissière B.E., Veldtman R., Westphal C. & S.G. Potts (2015) Delivery of crop pollination services is an insufficient argument for wild pollinator conservation. *Nature Communications* 6: 7414. DOI: 10.1038/ncomms10841 [10.02]
- Woodard§ S.H., Lozier J.D., Goulson D., Williams P.H., Strange J.P. & **S. Jha** (2015) Molecular tools and bumble bees: revealing hidden details of ecology and evolution in a model system. *Molecular Ecology* 24: 2916-2936. DOI: 10.1111/mec.13198 [6.330]
- Lin B.B., Philpott S.M. & **S. Jha** (2015) The future of urban agriculture and biodiversity-ecosystem services: challenges and next steps. *Basic and Applied Ecology* 16: 189-201. DOI: 10.1016/j.baae.2015.01.005 [2.70]
- Jha S.** (2015) Contemporary human-altered landscapes and oceanic barriers reduce bumble bee gene flow. *Molecular Ecology* 24: 993-1006. DOI: 10.1111/mec.13090 [6.33]
- Jha S.**, Bacon C., Philpott S.M., Rice R.A., Mendez V.E. & P. Läderach (2014) Shade coffee: update on a disappearing refuge for biodiversity. *Bioscience* 64: 416-428. DOI: :10.1093/biosci/biu038 [6.15]
- Saifuddin† M. & **S. Jha** (2014) Colony-level variation in pollen collection and foraging preferences among wild-caught bumble bees. *Environmental Entomology* 43: 393-401. DOI: 10.1603/EN13261 [1.61]
- Jha S.**, Stefanovich† L. & C. Kremen (2013) Bumble bee pollen use and preference across spatial scales in human-altered landscapes. *Ecological Entomology* 38: 570-579. DOI: 10.1111/een.12056 [2.02]
- Livingston† G., **Jha S.**, Vega A. & L. Gilbert (2013) Conservation value and permeability of Neotropical oil palm landscapes for orchid bees. *PLoS ONE* 8: e78523. DOI:10.1371/journal.pone.0078523 [4.24]
- Kennedy C.M., Lonsdorf E., Neel C.M., Williams N.M., Ricketts T.H., Winfree R., Bommarco R., Brittain C., Burley A.L., Cariveau D., Carvalheiro L.G., Chacoff N.P., Cunningham S.A.,

- Danforth B.N., Dudenhöffer J., Elle E., Gaines H.R., Gratton C., Greenleaf S.S., Holzschuh A., Isaacs R., Javorek S.K., **Jha S.**, Klein A.M., Krewenka K., Mandelik Y., Mayfield M.M., Morandin L., Neame L.A., Otieno M., Park M., Potts S.G., Rundlöf M., Saez A., Steffan-Dewenter I., Taki H., Tuell J.K., Felipe B., Veldtman R., Westphal C., & C. Kremen (2013) A global quantitative synthesis of local and landscape effects on native bee pollinators in agroecosystems. *Ecology Letters* 16: 584-599. DOI: 10.1111/gcb.13714 [16.78]
- Jha S.** & C. Kremen (2013) Urban land use limits regional bumble bee gene flow. *Molecular Ecology* 22:2483-2495. DOI: 10.1111/mec.12275 [6.33]
- Jha S.** & C. Kremen (2013) Resource diversity and landscape-level homogeneity drive native bee foraging. *Proceedings of the National Academy of Sciences* 8:555-558. DOI: 10.1073/pnas.1208682110 [10.58]
- Jha S.**, Allen† D.A., Liere H., Perfecto I. & J.H. Vandermeer (2012) Mutualisms and population regulation: mechanism matters. *PLoS ONE* 7: e43510. DOI: 10.1371/journal.pone.0043510 [4.24]
- Jha S.** & C.W. Dick (2010) Native bees mediate long-distance pollen dispersal in a shade coffee landscape mosaic. *Proceedings of the National Academy of the Sciences* 107:13760-13764. DOI: 10.1073/pnas.1002490107 [10.58]
- Jha S.** & J.H. Vandermeer (2010) Impacts of coffee agroforestry management on tropical bee communities. *Biological Conservation* 143: 1423-1431. DOI: 10.1073/pnas.1002490107 [4.69]
- Jha S.**, Vandermeer J.H. & I. Perfecto (2009) Population dynamics of *Coccus viridis*, a ubiquitous ant-tended agricultural pest, assessed by a new photographic method. *Bulletin of Insectology* 62: 183-189. ISSN: 1721-8861 [0.86]
- Jha S.** & J. H. Vandermeer (2009) Contrasting bee foraging in response to resource scale and local habitat management. *Oikos* 118: 1174-1180. DOI: 10.1111/j.1600-0706.2009.17523.x [3.93]
- Jha S.** & C.W. Dick (2009) Isolation and characterization of nine microsatellite loci for the tropical understory tree *Miconia affinis* Wurdack (Melastomataceae). *Molecular Ecology Resources* 9: 344-345. DOI: doi: 10.1111/j.1755-0998.2008.02428.x [4.99]
- Jha S.** & J.H. Vandermeer (2009) Contrasting foraging patterns for Africanized honeybees and native bees and wasps in a tropical agroforestry landscape. *Journal of Tropical Ecology* 25: 13-23. DOI: 10.1017/S026646740800566X [1.37]
- Jha S.** & C.W. Dick (2008) Shade coffee farms promote genetic diversity of native trees. *Current Biology* 18: 1126-1128. DOI: 10.1016/j.cub.2008.11.017 [10.13]
- Philpott S.M., Lin B.B., **Jha S.** & S.J. Brines (2008) A multi-scale assessment of hurricane impacts on agricultural landscapes based on land-use and topographic features. *Agriculture, Ecosystems and the Environment* 128: 12-20. DOI: 10.1016/j.agee.2008.04.016 [3.99]
- Jha S.**, Casey-Ford R.G., Platt T., Queller D.C. & J.E. Strassmann (2006) The queen is not the pacemaker in colonies of the small-colony wasps *Polistes instabilis* and *P. dominulus*. *Animal Behavior* 71: 1197-1203. DOI: 10.1016/j.anbehav.2005.11.005 [3.42]

Jha S., Harcombe P.A. & I.S. Elsik (2004) Analysis of American beech (*Fagus grandifolia*) death at Wier Woods. *Texas Journal of Science* 21: 328-339. [0.11]

Book Chapters

Philpott S.M., **Jha S.**, Lucatero A., Egerer M. & H. Liere (2020) Complex Ecological Interactions and Ecosystem Services in Urban Agroecosystems, in *Interdisciplinary Urban Agroecology Research* (eds. Egerer M. and H. Cohen). Taylor & Francis.

Lin B.B., Philpott S.M., **Jha S.** & H. Liere (2017) Urban agriculture as a productive green infrastructure for environmental and social well-being, in *Greening Cities: A Growing Imperative for Liveability and Sustainability* (eds. Yok T.P. and C.Y. Jim). Springer. pp 155-179.

Jha S., Burkle L. & C. Kremen (2012) Vulnerability of pollination ecosystem services to global climate change, in *Ecosystem Services and Climate Change* (eds, Seastedt T. and K. Suding). Springer. pp 118-128.

Jha S., Bacon C., Philpott S.M., Rice R.A., Mendez V.E. & P. Läderach (2011) Shade coffee at a crossroads again: A review of ecosystem services, farmer livelihoods, and value chains in shade coffee agroecosystems. In: Campbell, W. B. and Lopez Ortiz, Silvia, *Integrating Agriculture, Conservation and Ecotourism: Examples from the Field*. Dordrecht: Springer Netherlands, pp.141-208.

Manuscripts in Revision or Review

Belaire J.A., Bass H., Venhaus H., Barfield K., Pannkuk T. & **S. Jha** (in revision) High-performance landscapes: re-thinking design & management choices to enhance ecological benefits in urban environments. *Landscape and Urban Planning* [5.144]

Allen-Perkins et al. (in revision) CropPol: a dynamic, open and global database on crop pollination *Ecology* [5.39]

Ivers, N.A., Jordan Z., Cohen H., Tripodi A., Brown M.J.F., Liere H., Lin B.B., Philpott S. & **S. Jha** (in review) Parasitism of urban bumble bees driven by pollinator community composition and local land management. *Urban Ecosystems*

Helderop, E., Bienenstock E.J., Miller J., Tong D., Brosi B., **Jha S.** & T.H. Grubestic (in review) Network-Based Geoforensics: Connecting Pollen and Plants to Place. *Forensic Science International*

Cusser, S.J. & **S. Jha** (in review) No tradeoff in fiber quality with increased cotton yield due to outcross pollination. *Sustainability*

INVITED TALKS – SEMINARS, SYMPOSIA & PLENARIES

- Jha S.** (Nov. 2020) Plant-insect interactions and ecosystem services in the context of global change, *Cornell University*, Ithaca, NY
- Philpott, S.M., Egerer M., & **S. Jha** (Aug. 2019) Local and landscape drivers of ecosystem service trade-offs and synergies in urban agroecosystems, *Ecological Society of America*, Louisville, KY
- Jha S.** (Dec. 2019) Plant biogeography, urbanization, and forensic palynology, *MURI - Army Research Office*, Phoenix, AZ
- Jha S.** (Feb. 2019) Plant-animal interactions across spatial and temporal scales, *The University of Washington*, Seattle, WA – weather cancellation
- Jha S.** & Ballare K. (Aug. 2018) Bee population genetics in the face of urbanization, *Ecological Society of America*, New Orleans, LO
- Jha S.** (Apr. 2018) National Bee Monitoring Program Panel Member, *National Conservation Training Center*, Shepherdstown, WV
- Jha S.** (Apr. 2018) Biodiversity and ecosystem function relationships, *The University of Texas at Austin*, Austin, TX
- Jha S.** (Mar. 2018) Native and non-native bees in Texas and beyond, *The University of Texas at Austin*, Austin, TX
- Jha S.** (Feb. 2018) Tiny bees & the secret sex lives of trees, *AAAS Meeting*, Austin, TX
- Jha S.** (Feb. 2018) Pollen dispersal across fragmented forests, *The University of Texas at Austin*, Austin, TX
- Jha S.** & J. Koch (Aug. 2017) Bee genetics and genomics, *BOMBUSS Methods Meeting*, Logan, UT
- Jha S.**, Ballare K. & J.C. Neff (Aug. 2017) Urban bee diversity across local and landscape scales, *Ecological Society of America*, Portland, OR
- Jha S.** (Feb. 2017) Plant-animal species interactions and movement ecology across spatial and temporal scales, *Pennsylvania State University*, State College, PA
- Jha S.** (Nov. 2016) Gender biases in academia, *The University of Texas at Austin*, Austin, TX
- Jha S.** (Oct. 2016) Cross Timbers Pollinator Restoration, *The University of Texas at Austin*, Austin, TX
- Jha S.** (Oct. 2016) Plant-pollinator interactions across spatial and temporal scales, *University of Vermont*, Burlington, VM
- Ballare K.M., Neff J. & **S. Jha** (Sept. 2016) Effects of urban landscapes on native bee communities, *International Congress of Entomology*, Orlando, FL
- Jha S.** & N.S. Pope (Sept. 2016) Bee foraging across fluctuating floral landscapes, *International Congress of Entomology*, Orlando, FL

- Cusser S.J., Neff J. & **S. Jha** (Sept. 2016) Understanding land-use drivers of pollinator community composition in an agricultural landscape, *International Congress of Entomology*, Orlando, FL
- Jha S.** (Aug. 2016) Plant-pollinator interactions in the context of global change, *University of Texas*, Austin, TX
- Jha S.** (July 2016) Moderator of panel on Molecular Tools and Managing Pollinator Populations, *International Conference on Pollinator Biology, Health and Policy*, Penn State University, State College, PA
- Jha S.** (May 2016) Bee movement ecology across human-altered landscapes, *Northwestern University and the Chicago Botanic Garden*, Chicago, IL
- Jha S.** (April 2016) Pollinator movement ecology across changing global landscapes, *North Carolina State University*, Raleigh, NC
- Jha S.** (April 2016) Pollination Mutualisms: From Prairies to Cotton Farms, *Texas Tech University*, Lubbock, TX
- Jha S.** (Dec. 2015) Plant-pollinator interactions across human-altered landscapes, *Texas A&M University*, College Station, TX
- Jha S.** (Oct. 2015) Plant and pollinator ecology, *The University of Texas at Austin*, Austin, TX
- Pope N. & **S. Jha** (Aug. 2015) Unbiased estimation of foraging range and disease incidence from social bee genotypes, *Ecological Society of America*, Baltimore, MD
- Jha S.** (Aug. 2015) Pollinator foraging across dynamic resource landscapes, *Ecological Society of America*, Baltimore, MD
- Ballare K.M. & **S. Jha** (Aug. 2015) Complex effects of urban landscapes on wild bee communities, *Ecological Society of America*, Baltimore, MD
- Jha S.** (March 2015) Pollinator gene flow across urbanizing landscapes, *The University of Illinois*, Urbana Champagne, IL
- Jha S.** (Feb. 2015) Pollination mutualisms: from genes to landscapes, *Lady Bird Johnson Wildflower Center*, Austin, TX
- Jha S.** (May 2014) Movement in the matrix: bee population genetics across human-altered landscapes, *Washington University in St. Louis*, St. Louis, MO
- Jha S.** (Aug. 2013) Urban land use limits bumble bee gene flow, *International Conference on Pollinator Biology, Health and Policy*, Penn State University, State College, PA
- Jha S.** (May 2013) Restoration of Pollination Services: Population genetics and ecosystem services across human-altered landscapes, *University of California*, Los Angeles, CA
- Jha S.** (Mar. 2013) Pollinator nesting and foraging dynamics in human-altered landscapes, *Rice University*, Houston, TX

- Jha S.** (Jan. 2013) Population genetics and pollination services across human-altered landscapes, *University of California*, San Diego, CA
- Jha S.** (Aug. 2012) Pollinator nesting and foraging dynamics in human-altered landscapes, *Ecological Society of America*, Portland, OR
- Jha S.** (Feb. 2011) Ecosystem services and gene flow across human-altered landscapes, *Yale University*, New Haven, CT
- Jha S.** (Jan. 2011) Movement in the matrix: ecosystem services and population genetics across human-altered landscapes, *Washington University in St. Louis*, St. Louis, MO
- Jha S.** & C. Kremen (Nov. 2010) Landscape effects on bumblebee populations and gene flow patterns, *IUCN North American Bumble Bee Species Conservation Workshop*, St. Louis, MO
- Jha S.** (Nov. 2010) Movement in human-altered landscapes: gene flow patterns and ecosystem services across agricultural habitats, *University of California*, Riverside, CA
- Jha S.** (Oct. 2010) Dispersal in human-dominated landscapes: population genetics and ecosystem services across agricultural habitats, *University of California*, Davis, CA
- Jha S.** (Oct. 2010) Movement in the matrix: population genetics and ecosystem services across human-dominated landscapes, *University of California*, Berkeley, CA
- Jha S.** (June 2009) Shade coffee, it's not just for the birds: age-based spatial genetic structuring of a tropical understory tree, *University of Puerto Rico*, San Juan, Puerto Rico
- Jha S.** (May 2009) Shade coffee, it's not just for the birds: age-based spatial genetic structuring of a tropical understory tree, *Morehouse College*, Atlanta, GA
- Jha S.** (April 2008) Tropical pollination and seed dispersal, *University of Michigan*, E.S.G. Reserve, MI

CONTRIBUTED TALKS – MEETINGS & CONFERENCES

- Lopez E., Lichtenberg E.M., Griffin S. & **S. Jha** (July 2020) Plant-pollinator networks across restored grasslands, *Animal Behavior Society*, virtual
- Ivers N. & **S. Jha** (Aug. 2020) Landscape drivers of bee parasite and pathogen communities, *Ecological Society of America*, virtual
- Jha S.**, O'Connell M. & A. R. Castilla (Aug. 2019) Landscape genetic diversity buffers plant reproduction from extreme climate events, *Ecological Society of America*, Louisville, KY
- Lichtenberg E.M., Baum K.A. & **S. Jha** (Aug. 2019) Resource requirements at local and landscape scales underlie trade-offs for conserving diverse pollinators, *Ecological Society of America*, Louisville, KY
- Behr W.L., Simpson K.M., Lichtenberg E.M., **Jha S.** & N.L. Fowler (Aug. 2019) Forb responses to prescribed fire in Texas and Oklahoma, *Ecological Society of America*, Louisville, KY

- Lichtenberg E.M., Crowder D., **Jha S.** & J.M. Heiser (Nov. 2018) Pollinator responses to habitat loss and sustainability-oriented land management practices, *Entomological Society of America*, Vancouver, British Columbia
- Cusser S., Neff J.F. & **S. Jha** (Nov. 2018) Landscape composition differentially drives diet breadth for key pollinator species, *Entomological Society of America*, Vancouver, British Columbia
- Ballare K.M. & **S. Jha** (Aug. 2018) Genetic evidence for complex dispersal patterns across urban landscapes in the Eastern carpenter bee (*Xylocopa virginica*), *Ecological Society of America*, New Orleans, LO
- Ivers N.A. & **S. Jha** (Aug. 2018) Landscape drivers of genetic diversity and parasite susceptibility, *Ecological Society of America*, New Orleans, LO
- O'Connell M., Castilla A.R., & **S. Jha** (Aug. 2018) El Niño-Southern Oscillation and phenological shifts intensify effects of deforestation on plant-pollinator interactions and pollen dispersal in tropical forests, *Ecological Society of America*, New Orleans, LO
- Duennes M.A., Der J., **Jha S.** & S.H. Woodard (Nov. 2017) Transcriptional and nutritional signatures of diet quality in the fat body of bumble bee (*Bombus impatiens*) queens, *Entomological Society of America*, Denver, CO
- Liere H., Egerer M., **Jha S.**, Lin B.B. & S.M. Philpott (Nov. 2017) Community composition, functional traits, and functional diversity of ladybeetles (Coleoptera: Coccinellidae) in urban community gardens, *Entomological Society of America*, Denver, CO
- Ballare K.M. & **S. Jha** (Aug. 2017) Landscape genetics of a putative urban opportunist: *Xylocopa virginica*, *Entomological Society of America*, Denver, CO
- Philpott S.M, Jordan Z., Bichier P., Liere H., Lin B.B & **S. Jha** (Aug. 2017) Bumblee bee pollen abundance and richness along a urban garden management gradient, *Ecological Society of America*, Portland, OR
- Liere H., Bichier P., Egerer M., **Jha S.**, Lin B.B. & S.M. Philpott (Aug. 2017) Herbivore regulation in urban community gardens: Direct and indirect pathways of control, *Ecological Society of America*, Portland, OR
- Lin B.B., Egerer M., **Jha S.**, Liere H. & S.M. Philpott (Aug. 2017) The effect of local and landscape scale land cover on microclimate and water use in urban gardens, *Ecological Society of America*, Portland, OR
- Cusser S.J. & **S. Jha** (Aug. 2017) Modeling pollination service delivered by effective pollinators in Texas cotton, *Ecological Society of America*, Portland, OR
- Ballare K.M. & **Jha S.** (June 2017) Complex effects of urban land use on native bee communities in a rapidly growing metropolis, *International Urban Wildlife*, San Diego, CA

- O’Connell M., Castilla A.R., Rodriguez M.F. & **S. Jha** (July. 2017) Pollinator species-specific contribution to reproduction in tropical trees, *Association for Tropical Biology & Conservation*, Merida, Mexico
- Castilla A.R., Rodriguez MF, O’Connell M, Trevino L & **S. Jha** (Aug. 2015) Pollinator species-specific contribution to reproduction in tropical trees, *Ecological Society of America*, Baltimore, MD
- Cusser S.J. & **S. Jha** (Aug. 2015) Dually improving biodiversity and pollination services for enhanced cotton yields and sustainability, *International Congress for Conservation Biology*, Montpellier, France
- Cunningham S. & **S. Jha** (Nov. 2014) Relationships between butterfly foraging and local and landscape floral coverage, *Entomological Society of America*, Portland, OR
- Cusser S.J. & **S. Jha** (Nov. 2014) Pollen limitation of cotton crops, *Entomological Society of America*, Portland, OR
- Philpott S.M. & **S. Jha** (Aug. 2014) Ecosystem services and shade management in coffee agroecosystems: ecology and application, *Ecological Society of America*, Davis, CA
- Ritchie A.D. & **S. Jha** (Aug. 2014) Foraging behavior and floral preference of *Melissodes tepaneca*, *Ecological Society of America*, Davis, CA
- Castilla A.R. & **S. Jha** (Aug. 2014) Pollinator-plant species specificity as it relates to viable seed production and level of disturbance, *Ecological Society of America*, Davis, CA
- Ballare K.M. & **S. Jha** (Nov. 2013) Complex effects of urban land use on native bee communities in a rapidly growing metropolis, *Entomological Society of America*, Austin, TX
- Cusser S.J. & **S. Jha** (Nov. 2013) Agricultural development changes native bee community composition in Central Texas peach orchards, *Entomological Society of America*, Austin, TX
- Pope N. & **S. Jha** (Nov. 2013) Assessment of pollinator floral preferences with phylogenetic random utility models, *Entomological Society of America*, Austin, TX
- Castilla A.R. & **S. Jha** (Aug. 2013) Towards an improved knowledge of species-specific pollinator movement and efficiency, *Ecological Society of America*, Minneapolis, MN
- Jha S.** (Aug. 2013) Urban land use impacts on bumble bee population genetics, *Ecological Society of America*, Minneapolis, MN
- Jha S.** (Jan. 2012) Movement in the Matrix: population genetics and pollination services across human-altered landscapes, *University of Texas*, Austin, TX
- Jha S.** & C. Kremen (Aug. 2010) Landscape effects on bumble bee population dynamics and genetic structure, *Ecological Society of America*, Pittsburgh, PA
- Jha S.** & C.W. Dick (Aug. 2009) Native bees facilitate gene flow across shade coffee landscapes, *Ecological Society of America*, Albuquerque, NM

- Jha S.** & C.W. Dick (Aug. 2008) Shade coffee, it's not just for the birds: extensive gene flow of the tropical understory tree, *Miconia affinis*, *Ecological Society of America*, Milwaukee, WI
- Jha S.** & C.W. Dick (Aug. 2008) The colonization of shade coffee: the spatial genetic structure of a tropical understory tree, *Miconia affinis*, *Association for Tropical Biology and Conservation*, Paramaribo, Suriname
- Jha S.** (Dec. 2008) Buzz-pollination, agroecosystem management, and the population genetics of the tropical understory tree, *Miconia affinis*, *University of Michigan*, Ann Arbor, MI
- Jha S.** & J. H. Vandermeer (Aug. 2007) Bee foraging in coffee agroecosystems: sociality influences response to resource scales, *Ecological Society of America*, San Jose, CA
- Jha S.** & J. H. Vandermeer (Aug. 2007) Native and exotic bees in coffee agroecosystems, *Association for Tropical Biology and Conservation*, Morelia, MX
- Jha S.** & J.H. Vandermeer (April 2006) Biodiversity and invasion in coffee agroecosystems of Chiapas, Mexico, *Ecological Society of America Conference*, Merida, Veracruz, Mexico
- Jha S.** (May 2005) Biodiversity and Invasion: Native and non-native bees in a coffee agroecosystem, *University of Michigan*, Ann Arbor, MI
- Jha S.**, Harcombe, P.A. & I.S. Elsik (Aug. 2004) Potential causes of American beech decline in Wier Woods, Texas, *Ecological Society of America*, Portland, OR
- Jha S.**, Harcombe, P.A. & I.S. Elsik (April 2003) Analysis of American beech decline in Wier Woods, TX, *Big Thicket Science Conference*, Beaumont, TX
- Jha S.**, Casey-Ford, R.G., Platt, T., Queller, D.C. & J.E. Strassmann (June 2002) The role of the queen in coordinating group activity in *Polistes instabilis*, *Rice University Undergraduate Research Symposium*, Houston, TX

TEACHING

- 2017 & 2019 **Graduate Skills** (BIO 389D) - University of Texas at Austin – Primary Instructor of graduate course which develops writing, presenting, and organization skills necessary to success in biological research
- 2011 - 2017 **Ecology** (BIO 373) - University of Texas at Austin – Primary Instructor of undergraduate course (taught once per year) which provides an introduction to all of the major areas in the field of ecology
- 2017 **Ecosystem Services** (BIO 384K) - University of Texas at Austin – Primary Instructor of graduate course which explores ecosystem service quantification, valuation, and spatial and temporal mapping
- 2016 **Networks in Ecology** (BIO 384K) - University of Texas at Austin – Primary Instructor of graduate course which focuses on the interpretation and insights gained from networks in ecology, evolution, and behavior

- 2015 **Foraging Ecology** (BIO 384K) - University of Texas at Austin – Primary Instructor of graduate course which focuses on central-place foraging, optimal foraging theory, nutritional ecology, and movement ecology
- 2013 **Urban Ecology** (BIO 384K) - University of Texas at Austin – Primary Instructor of graduate course which provides an overview of emerging concepts and mechanisms of biodiversity maintenance in urban systems
- 2012 **Advanced Topics in Conservation** (BIO 384K) - University of Texas at Austin – Primary Instructor of graduate course that covers foundational and emerging concepts in Conservation Biology, including biodiversity conservation, protected area design, managing the matrix, and ecosystem services
- 2010 & 2012 **Field Ecology** (EEB 455) - University of Michigan – Guest Instructor in population and community ecology and mentor in field project design, statistics, and scientific writing
- 2006 & 2007 **Field Ecology** (EEB 455) - University of Michigan – Teaching Assistant (taught twice), research mentor, and advisor of experimental design and analyses
- 2004 - 2006 **Introductory Biology** (BIO 162) - University of Michigan – Teaching Assistant (taught 5 times), leader of weekly laboratory practicals, grader of lab reports and exams

ADVISING

Mentor of Post-doctoral Fellows:

Hannah Gray - 2020 - present – Herbivore and pollinator interactions in agroecosystems
 Gabrielle Pardee - 2020 - present – Urbanization impacts on pollinators
 Sean Griffin - 2019 - present – Plant and pollinator response to restoration
 Elinor Lichtenberg - 2017 - 2019 – Plant and pollinator restoration ecology
 S. Hollis Woodard - 2014 - 2016 – Nutritional ecology of bumble bees
 Antonio Castilla - 2012 - 2015 – Tropical ecology and plant population genetics

Mentor of Visiting Post-doctoral Scholars:

Rodolfo Jaffe Ribbi - 2014 - 2015 – Tropical bee population genetics

Chair of Graduate Student Committees:

*EEB = Ecology, Evolution & Behavior, PB= Plant Biology, CRP= Community & Regional Planning, ANT= Anthropology, GEO= Geography
 Leah Richardson (PhD, EEB) – 2020 – present – Bee cognition and foraging
 Camila Cortina (PhD, EEB) - 2019 - present – Pollinator foraging and population persistence
 Nick Ivers (PhD, EEB) - 2017 - present – Pathogen and population dynamics of bumble bees
 Megan O’Connell (PhD, PB) - 2014 - present – Tropical plant population genetics
 Emlyn Resetarits (PhD, EEB) - 2014 - 2019 – Metacommunities and social trematodes
 Nathaniel Pope (PhD, EEB) - 2012 - 2019 – Foraging and disease ecology of bumble bees
 Sarah Cusser (PhD, EEB) - 2012 - 2018 – Agroecology and landscape pollination ecology
 Kimberly Ballare (PhD, EEB) - 2012 - 2018 – Urban bee ecology and population genetics

Member, Graduate Student Committees:

Azucena Lucatero (PhD, EnvStudies at UC Santa Cruz) - 2020 - present – Urban agroecology

Audrey Denvir (PhD, GEO) - 2020 - present – Agroecology in the Neotropics
 Briana Betke (PhD, EEB) - 2019 - present – Disease ecology in urban landscapes
 Whitney Behr (PhD, PB) - 2019 - present – Fire ecology and impacts on floral resources
 Chase Rakowski (PhD, EEB) - 2018 - present – Algal agroecology and trophic dynamics
 Allison Northrup (PhD, EEB) - 2018 - present – Physiological ecology and theoretical ecology
 Dan LeVine (PhD, GEO) - 2018 - present – Remote sensing of fire impacts on grasslands
 Sarah Eshleman (PhD, GEO) - 2018 - present – Geographic information science in Belize
 Zachary Phillips (PhD, EEB) - 2017 - present – Mutualistic interactions in leaf-cutting ants
 Carolyn Whiting (PhD, PB) - 2017 - present – Fire ecology and grassland succession
 Amely Martins (PhD, ANT) - 2016 - present – Population genomics and habitat fragmentation
 Hannah Marti (PhD, EEB) - 2016 - present – Social behavior in hymenoptera
 Aaron Groth (PhD, Geography) - 2015 - present – Tropical agroecology and ecosystem services
 Erick Da Silva Motta (PhD, EEB) - 2016 - 2020 – Microbiota of honey bees and bumble bees
 Claire Hemingway (PhD, EEB) - 2017 - 2020 – Mammal foraging dynamics
 Sarah Barfield (PhD, EEB) - 2017 - 2020 – Population genomics of coral reefs
 Robert Deans (PhD, EEB) - 2014 - 2019 – Community ecology and species interactions
 Nathan Lecler (PhD, PB) - 2014 - 2019 – Biogeography and pollination biology
 Juan Diego Palacio (PhD, PB) - 2014 - 2018 – Cold tolerance and biofuels
 Gautam Surya (PhD, EEB) - 2014 - 2018 – Avian species distributions and biogeography
 Andria Salas (PhD, EEB) - 2014 - 2018 – Marine soundscape and landscape ecology
 Elise Worchel (PhD, PB) - 2013 - 2018 – Microbial-plant interactions
 Lina Maria Valencia (PhD, ANT) - 2013 - 2018 – Habitat fragmentation and dispersal
 Colin Addis (PhD, EEB) - 2014 - 2017 – Individual-based models of pollinator foraging
 Rong Ma (PhD, EEB) - 2014 - 2017 – Honey bee pheromones and genomics
 Emily Booth (PhD, PB) - 2013 - 2017 – Plant community ecology and fire regimes
 Roger Shaw (PhD, EEB) - 2014 - 2016 – Dispersal ecology of odonates
 Gabriel DeJong (Masters, PB) - 2014 - 2015 – Propagule pressure and spatial ecology
 Daniel Fox-Baker (Masters, Community & Regional Planning) - 2014 - 2015 – Mosquito ecology

Undergraduate:

Meagan Yates - 2018 - present – Bee disease ecology
 Apoorva Magadi - 2018 - present – Tropical pollen dispersal
 Elena Tran - 2018 - present – Pollen deposition in urban gardens
 Elizabeth Lopez - 2018 - present – Pollinator networks in the Crosstimbers ecoregion
 Sarah Wong - 2018 - present – Pollinator disease ecology
 Shannon Dang - 2018 - present – Curation of pollinators from the Crosstimbers ecoregion
 Llewyn Evans - 2018 - present – Pollinator curation in the Crosstimbers ecoregion
 Kyle Simpson - 2018 - present – Plant curation in the Crosstimbers ecoregion
 Sam Wilhelm - 2018 - present – Fire ecology in the Crosstimbers ecoregion
 Erin McGilvray - 2018 – Pollen collection by bumble bees in urban gardens
 Juan Tin Rodriguez - 2018 – Identification of pollinators from the Crosstimbers ecoregion
 Jaclyn Heiser - 2017 – Pollination ecology of Texas and Oklahoma grasslands
 Katherine Strain - 2017 – Plant ecology of unrestored and restored prairies
 Bridget Harter - 2017 – Pollination ecology of Texas and Oklahoma grasslands
 Marci Rolbiecki - 2016 – Pollen foraging preferences of *Lasioglossum bardum*
 Amy Wroblieski - 2016 – Plant population ecology
 Leticia Lee - 2016 – Plant population genetics
 Alan Ritchie - 2015 – Pollen collection and preference of *Melissodes tepaneca*
 Kelvey Merrill - 2015 – Pollinator community ecology of central Texas
 Esther Schenau - 2015 – Bumble bee population genetics
 Michael Schnebly - 2015 – Pollinator community ecology of central Texas
 Lee Stevens - 2015 – Pollination ecology of central Texas wildflowers

Alexa Kusmik - 2015 – Plant community ecology of central Texas
 Nicole Vojnovich - 2015 – Bees of the Texas Gulf Coast
 Maria Rodriguez - 2015 – Tropical plant population genetics
 Sarah Cunningham - 2014 – Community ecology of Texas butterflies
 Ashley Doucet - 2014 – DNA extraction of California bumble bees
 Lily Valad - 2014 – Plant community ecology of central Texas
 Nathan Hoppe - 2014 – Plant-soil interactions along an invasion frontier
 William Jorn - 2014 – Plant-herbivore interactions in central Texas
 Emily Wagner - 2014 – DNA extraction of California bumble bees
 Sasha Mehrabian - 2014 – Plant community ecology of central Texas
 Mustafa Saifuddin - 2013 – Pollen collection and preference of *Bombus vosnesenskii*
 Karima Khimani - 2013 – Development of pollen reference collection

High School:

Yadira Rodriguez - 2018 – Plant reproductive biology
 Lauren Do - 2017 – Native bee pollen foraging ecology
 Diana Joyce Ojeda - 2015 & 2016 – Tropical plant population genetics
 Alexis Diaz - 2014 – Bumble bee nutritional ecology
 Keyanna Maxwell - 2013 – Plant population ecology

SERVICE & PUBLIC ENGAGEMENT ACTIVITIES

Departmental

IB Executive Committee – 2019 - present

- Participant in discussion group focusing on opportunities and challenges in the department

IB Diversity and Inclusivity Committee – 2017 - present

- Leader for the inclusion of diversity and inclusivity materials and in multiple platforms: development of departmental strategic plan, proposal writing for Early Career Postdoctoral Fellows, faculty job ads, graduate student handbooks, departmental web materials, new student orientation, and through the diversity and inclusion discussion series

PB Strategic Planning Committee – 2015 - present

- Member of team charged with developing next-steps for the PB graduate program regarding student-college integration, financial stability, and graduation rates

EEB Student Evaluation and Fellowships Committee – 2013 - present

- Evaluator of graduate proposals for start-up, travel, and dissertation research funds

EEB/IB Parental Accommodation Contact for Graduate Students - 2013 - present

- Navigate graduate student support available at CNS and departmental levels

EEB Graduate Program Minority Liaison – 2013 - present

- Mentor for historically underrepresented (economic, gender, ethnic, and cultural) groups and students working through challenges do to external obligations (family, medical, societal)

IB Faculty Search Committee – Junior Ecologist – 2017 - 2018

- Chair of search committee, reviewer of applications, summarization of status for faculty meetings, and interviewer and host of candidates during visits

IB Faculty Search Committee – Open-Rank Ecologist – 2017 - 2018

- Chair of search committee, reviewer of applications, summarization of status for faculty meetings, and interviewer and host of candidates during visits

IB Faculty Search Committee – Junior Integrative Biologist – 2016 - 2017

- Reviewer of applications and interviewer of candidates for the faculty position

Brackenridge Field Lab Butterfly Garden – 2013 - 2015

- Volunteer in the maintenance of educational pollinator garden at Brackenridge Field Lab

IB Insect Curator Search Committee – 2013 - 2014

- Reviewer of applications and interviewer of candidates for Insect Curator position

College

CNS Emerging Faculty Leaders – 2019 - present

- Member of committee working towards greater connection and collaboration between faculty and college leadership

CNS Diversity Equity and Inclusion Action Team – 2020 - present

- Served as the lead for the BIPOC Climate committee, collated college-wide action plans to address inequities at undergraduate, graduate, faculty, and staff levels

Lady Bird Johnson Wildflower Center, Bee Identification Workshop – 2018 - present

- Developed and implemented an educational workshop on native bee identification and conservation.

CNS Minority Liaison – 2016 - present

- Co-organizer of SURE in CNS, a multi-day minority graduate recruitment event that provides mentorship to undergraduate students from across the country
- Developer of inclusive classroom material for CNS to help in the enhancement of social/economic/cultural sensitivity in teaching

CNS Diversity and Inclusivity Committee – 2016 - present

- Member of CNS committee to create an inclusive environment for CNS students, creating gender inclusive restrooms, improve training protocols, improve web presence, increase representation and recruitment of underserved groups
- Tour leader and participant in UT's 2013 SACNAS Prospective Student Mentoring Event and the 2015 Virtual Fair to advance Hispanic, Chicano, and Native American participation in science

Lady Bird Johnson Wildflower Center, Nature Nights – 2015 - present

- Participant in a public outreach event educating community members about pollinator biology and conservation.

Jean Andrews Lecture Series, Plant Biology Program – 2012 - present

- Organizer of an annual plant conservation and public outreach seminar series held at the Lady Bird Johnson Wildflower Center and the University of Texas

EEB Admissions Committee – 2013 - present

- Evaluator of graduate applicants to the EEB program

Staff Excellence and Diversity Inclusion Awards – 2017 - 2018

- Designed and evaluated nominations for the Diversity and Inclusivity Award
- Evaluated nominations for Staff Excellence

CNS Dean Search Faculty Interview Committee – 2017 - 2018

- Interviewed Dean candidates and summarized faculty perspectives

UT Family Day – 2015

- Faculty speaker and participant in a science outreach event informing UT families about CNS research activities

University

Council for Racial and Ethnic Equity and Diversity (CREED) – 2020 - present

- Representative for CNS in actions addressing inequities at UT across academic positions, including issues of representation, recruitment, compensation, retention, and community engagement

Bee Campus USA – 2019 - present

- Faculty advisor for student group working towards pollinator conservation on campus
- Submitted materials and was awarded Bee Campus status by the Xerces Society for Invertebrate Conservation

President's Sustainability Steering Committee – 2017 - present

- Member of committee to propose, discuss, and evaluate campus sustainability measures and their impact on current, past, and future students, staff, and faculty

Bridging Barriers - Planet Texas 2050 – 2017 - present

- Participant in cross-disciplinary discussion and creation of sustainability projects for Austin and UT within the context of multiple global change forces

Mitchell Fellows REU Program – 2020

- Research and career mentor for summer researchers in the environmental sciences

NSF Includes Selection Committee – 2020

- Evaluated internal proposals for the NSF Includes competitive program

Environmental Science Institute REU Program – 2013 - 2018

- Research and career mentor for summer researchers in the Environmental Science Institute

Faculty Council Standing Committee on Responsibilities, Rights, and Welfare of Graduate Student Academic Employees – 2016 - 2017

- Advisory member for the Faculty Council and president on matters pertaining to the responsibilities, rights, and welfare of graduate student academic employees

Environmental Science Institute Admissions Committee – 2012 - 2017

- Evaluator of transfer and incoming applicants to the Environmental Science program

International, National, and Community

Commission for Environmental Cooperation North American Pollinator Conservation Framework – 2020 - present

- Served along five other pollinator experts from the US, Mexico, and Canada to develop a tri-national pollinator conservation framework for federal implementation

National Native Bee Monitoring Program -USDA – 2018 - present

- Leader in designing a national protocol for monitoring native bees in the US

TPWD – Wildlife Tax Valuation and Pollinator Monitoring Program – 2016 - present

- Leader in designing a state-level protocol for conserving pollinator habitat for tax valuation

Texas Legislature – Pollinator Conservation Advocate – 2019

- Provided testimony on the economic benefits of state-level management and policy measures for native pollinator conservation

BOMBUSS – Methods in Bumble bee biology – 2017 - 2019

- Workshop leader, Utah State University – Population Genetic and Genomic tools for Bumble bee research

Davy Crockett High School Research Program – 2013 - 2018

- Mentor for students from historically underrepresented (economic, gender, ethnic, and cultural) groups in biology

International Conference on Pollinator Biology, Health & Policy – 2016

- Conference symposium co-organizer, Pennsylvania State University – Molecular Tools for Managing Pollinator Populations

Intergovernmental Platform on Biodiversity & Ecosystem Services (IBES) – 2014 - 2017

- Collaborator and reviewer of IBES drafts examining the drivers of change for pollinators, pollinator networks, and pollination services

International Union for the Conservation of Nature (IUCN) Bumble bee Conservation Working Group – 2010 - 2017

- Collaborator in the development of conservation recommendations for *Bombus* spp and Red-listing for *B. Franklini*

Texas Pollinator Conservation POWWOW – 2014 - 2016

- Pollinator outreach workshop coordinator, Lady Bird Johnson Wildflower Center & Texas Tech University - Presenter and advisor on native bee conservation and ecology

Ecological Society of America – 2015

- Conference symposium co-organizer, Baltimore Convention Center – Urban Gardening and the Conservation of Biodiversity and Ecosystem services
- Conference symposium co-organizer, Baltimore Convention Center – Native Bee Conservation Genetics

Balcones Canyonlands Preserve System – 2015

- Highlighted Ecologist, speaker at the Annual BCP Conservation Meeting – Native bees of the BCP reserve system

Entomological Society of America – 2013

- Conference symposium co-organizer, Austin Convention Center - Bee Conservation in the 21st Century

Pollinator Conservation Citizen Scientist Workshop – 2009 - 2010

- Collaborator with the Xerces Society and the University of California Berkeley & Davis - Instructor in a bee identification workshop

SELECTED MEDIA COVERAGE

S. Jha (2018) interview and PNAS paper discussed on BBC World Service:

<https://www.bbc.co.uk/programmes/w3cswmp5>

S. Jha (2017) interview and PNAS paper discussed on Talk of the Nation Science Friday, National Public Radio: <https://www.sciencefriday.com/segments/the-secret-life-of-tiny-bees>

<https://www.sciencefriday.com/articles/the-glittery-jewels-of-the-bee-world>

S. Jha (2015) interview and Molecular Ecology paper discussed on the Texas Standard:

<http://www.texasstandard.org/shows/05202015/why-you-should-care-about-homeless-bees>

S. Jha (2015) interview and Molecular Ecology paper discussed on The Source:

<http://tpr.org/post/source-plan-pollinators>

S. Jha and colleagues (2014) Bioscience paper featured in the Huffington Post:

http://www.huffingtonpost.com/2014/04/29/sustainable-coffee_n_5175192.htm

S. Jha and C. Kremen (2013) PNAS paper discussed in the New York Times:

http://www.nytimes.com/2013/06/15/opinion/greedy-gardeners.html?_r=0

S. Jha (2010) interview and PNAS paper discussed on Weekend Edition of All Things Considered, National Public Radio:

<http://www.npr.org/templates/story/story.php?storyId=129800164>

S. Jha (2008) interview and Current Biology paper discussed on Talk of the Nation Science Friday, National Public Radio: <http://www.sciencefriday.com/program/archives/200812265>

PROFESSIONAL ACTIVITIES

Professional Societies:

American Society of Naturalists
The Association for Tropical Biology and Conservation
The Ecological Society of America
The Entomological Society of America
The Xerces Society

Associate Editor:

The American Naturalist

Reviewer of Journal Articles and Grant Proposals:

Agricultural and Forest Entomology
Agriculture Ecosystems and the Environment
American Naturalist
Army Research Office
Basic and Applied Ecology
Biodiversity and Conservation
Biotropica
Conservation Biology
Computers, Environment and Urban Systems
Current Biology
Earthwatch Institute
Ecography
Ecological Applications
Ecology
Ecology Letters
Evolution
Forest Ecology and Management
Frontiers in Ecology and the Environment
Heredity
Insect Conservation and Diversity
Journal of Ecology
Journal of Tropical Ecology
Molecular Ecology (Top Reviewer in 2014)
Nature Communications
National Geographic Society
Oecologia
Proceedings of the National Academy of Sciences
United States Department of Agriculture

LANGUAGES

English, Spanish, Hindi, Maithili, and Marathi