

Tina Harrison

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EDUCATION

2016 Ph.D., Ecology & Evolution, Rutgers University, New Brunswick, NJ
2009 B.A., Biology, Dartmouth College, Hanover, NH

RESEARCH ANALYST

2025-present Dept of Ecology, Evolution & Natural Resources, Rutgers University, New Brunswick, NJ

POSTDOCTORAL RESEARCHER

2019—2021 Department of Biology, University of Louisiana - Lafayette
2018—2019 Department of Entomology, University of California - Davis
2016—2018 Dept of Ecology, Evolution & Natural Resources, Rutgers University, New Brunswick, NJ

PUBLICATIONS

Publication impact Google Scholar (citations 1254, H index 12)

- Winfree, R, J Reilly, M Genung, and **T Harrison**. In review. Does the species-function distribution follow the Pareto principle (80-20 rule)? *Ecology Letters*.
- Winfree, R, J Reilly, D Simpson, J Greenwood, I Bartomeus, F Benjamin, D Cariveau, M Genung, **T Harrison**, M MacLeod, M McCarthy, R Rader, M Roswell, C Smith, and K Turo. In review. Data on wild bee abundance and plant-pollinator interactions for 364 species of bees in the northeastern USA. *Ecology*, Data Paper section
14. McCarthy MW, Simpson DT, Aldercotte AH, Smith C, **Harrison T**, Winfree R. 2026. Separating sampling bias from abundance shows that different methods catch different wild bees. *Ecology and Evolution*. 16(2):e73060.
 13. Portman, ZM, B Bruninga-Socolar, MH Chase, **T Harrison**, M Arduser, VJ Tepedino, & DP Cariveau. 2025. Big data, changing taxonomy, and ghost records: permanent preservation of collected specimens is essential for insect monitoring. *Annals of the Entomological Society of America*, 118(4), 331-345.
 12. Roswell, M, **T Harrison**, MA Genung. 2023. Biodiversity-ecosystem function relationships change in sign and magnitude across the Hill diversity spectrum. *Philosophical Transactions of the Royal Society B* 378:1881 20220186
 11. **Harrison, T**, R Winfree, MA Genung. 2022. Price equations for understanding the response of ecosystem function to community change. *The American Naturalist* 200:2 181-192

10. Pardee, GL, SR Griffin, M Stemkovski, **T Harrison**, ZM Portman, MR Kazenel, JS Lynn, DW Inouye, RE Irwin. 2022. Life-history traits predict responses of wild bees to climate variation. *Proceedings of the Royal Society B* 289:1973 20212697
9. Smith, C, **T Harrison**, J Gardner, R Winfree. 2021. Forest-associated bee species persist amid forest loss and regrowth in eastern North America. *Biological Conservation* 260, 109202
8. Senapathi, D, et al. (**T Harrison** among 58 authors). 2021. Wild insect diversity increases inter-annual stability in global crop pollinator communities. *Proceedings of the Royal Society B* 288:1947 20210212
7. Williams, NM, JM Mola, C Stuligross, **T Harrison**, M Page, RM Brennan, NM Rosenberger, M Rundlöf. 2019. Fantastic bees and where to find them: locating the cryptic overwintering queens of a western bumble bee. *Ecosphere* 10(11): e02949
6. **Harrison, T**, J Gibbs, R Winfree. 2019. Anthropogenic landscapes support fewer rare bee species. *Landscape Ecology* 34: 967-978
5. **Harrison, T**, J Gibbs, R Winfree. 2018. Phylogenetic homogenization of bee communities across ecoregions. *Global Ecology and Biogeography* 27(12):1457-1466
4. **Harrison, T**, J Gibbs, R Winfree. 2018. Forest bees are replaced in agricultural and urban landscapes by native species with different phenologies and life history traits. *Global Change Biology* 24:287-296
3. Bartomeus, I, DP Cariveau, **T Harrison**, R Winfree. 2018. On the inconsistency of pollinator species traits for predicting either response to agricultural intensification or functional contribution. *Oikos* 127(2):306-315
2. **Harrison, T**, R Winfree. 2015. Urban drivers of plant-pollinator interactions. *Functional Ecology* 29:879-888
1. Winfree, R, M MacLeod, **T Harrison**, D Cariveau. 2015. Conserving and restoring mutualisms. Pages 268-286 in J Bronstein, ed, Mutualism. Oxford University Press

Eight first-author conference presentations at Ecological Society of America and Entomological Society of America Annual Meetings.

GRANTS & FELLOWSHIPS

New Jersey State Wildlife Grant. With R Winfree, G Fowles, R Somes (Co-PIs) and D Jenkins (Project Manager) 2016-2017

Federal Department of Education Graduate Assistance in Areas of National Need Fellowship: Ecology and Evolution in Urban Environments. Awarded by the Rutgers Dept. of Ecology, Evolution and Natural Resources 2013-2016

TEACHING AND MENTORING

General Biology 101 & 102 Teaching Assistant (2011 – 2013)

Undergraduate and early career mentees

Colin Fagin (2018-2019), Jens Jensen (2016), Rosy Tucker (Rutgers ARESTY Program 2015-2017), Stacy Brody (2011)

SERVICE & OUTREACH (SELECTED)

Peer review for *Nature*, *Functional Ecology*, *Ecology Letters*, *Journal of Applied Ecology*, *Ecology*, *Nature Communications*, *Global Ecology and Biogeography*, *Oecologia*, *Urban Ecosystems*, *Landscape Ecology*, *Ecography*, and *Ecological Entomology*.

Contributed presentations or written outreach material to NJ Land Trust Network, New Jersey DEP Fish and Wildlife, Xerces Society for Invertebrate Conservation, Master Gardeners