

# Hanna Makowski, Ph.D.

Ecology Postdoctoral Fellow at Black Rock Forest

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## Education

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Ph.D. in Ecology and Evolution, <i>University of Virginia</i>	2018 – 2023
B.S in Biology, <i>Saint Mary's College, Notre Dame</i> Magna Cum Laude, Honors Thesis	2018

## Awards and Fellowships

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Ecology Postdoctoral Fellowship, <i>Black Rock Forest, Cornwall, NY</i>	2023
Research and Travel Award, <i>Graduate Student and Post-Doctoral Association, UVA</i>	2022
Teaching Relief Fellowship, <i>Graduate School of Arts and Sciences, University of Virginia</i>	2022
Rosemary Grant Advanced Award, <i>The Society for the Study of Evolution</i>	2022
Graduate Global Research Award, <i>Center for Global Inquiry and Innovation, University of Virginia</i>	2021
Raven Fellow, <i>The Raven Society, University of Virginia</i>	2021
Karling Award, <i>Botanical Society of America</i>	2020
Bill Dahl Graduate Student Research Award, <i>Botanical Society of America</i>	2020
Best Graduate Student Poster, <i>Southeastern Population Ecology and Evolutionary Genetics</i>	2019
Young Botanist, <i>Botanical Society of America</i>	2018
George and Juanda Bick Nature Award, <i>Saint Mary's College, Notre Dame</i>	2018

## Publications

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Makowski, H., Majetic, C., Garrett, P., Johnson, S., Schurr, P., Moore, R.C. 2021. Floral scent is different between sexual phases within individuals in a synchronously dichogamous shrub (*Canella winterana*) but there is no distinct female or male scent profile across individuals. *Biochemical Systematics and Ecology*, 96: 104270

Makowski, H., Lamb, K., Galloway, L.F. 2024. Support for Bakers law: facultative self-fertilization ability decreases pollen limitation in experimental colonization. *American Journal of Botany*. 111: e16351.

Makowski, H., Scott, E.M.\*, Lamb, K., Galloway, L.F. Compensating for the corolla? A comparative analysis of pollen-collecting hair length and its potential role in pollen protection across Campanulaceae. Accepted with revisions: *Annals of Botany*

### In prep

Makowski, H., Kim, A.M.\*, Scott, E.M.\*, Lamb, K., Galloway, L.F. Differences in pollen-collecting hairs are associated with autonomous selfing ability in *C. americana*. In prep. *Targeted journal: Functional Ecology*

\* Undergraduate co-author

## Mentoring

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Mentoring, <i>CUNY undergraduate, Seosamh Radigan,</i> "Leaf phenology drivers in <i>Acer saccharum</i> : comparison of genetic and abiotic factors"	2023 – present
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<b>Mentoring, UVA undergraduate, Austin Kim,</b> "Mechanisms of pollen collecting hairs and their impact on autonomous selfing ability"	2019-22
<b>Mentoring, UVA undergraduate, Emily Scott,</b> "The evolution of pollen-collecting hairs across Campanulaceae"	2021-23

## Teaching Experience

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<b>Guest Lecture, Barnard College, Columbia University, Applied Ecology and Evolution: BIOL BC3380</b>	2024
<b>Guest Lecture, Hunter College, CUNY, Ecology of Global Change: PGEOG 38306</b>	2024
<b>Guest Lecture, Hunter College, CUNY, Field Ecology of New York City: PGEOG 38367</b>	2023
<b>Lab Development Assistant, UVA, Introductory Biology: BIOL 2200</b>	2023
<b>Teaching Assistant, UVA, Introductory Biology: BIOL 2100 and 2200.</b>	2018-21
<b>Guest Lecture, UVA, Plant-animal interactions: BIOL 4450</b>	2020

## Presentations

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<b>Northeast Natural History Conference,</b> "Determinants of deciduousness: detangling the genetic vs. environmental correlates of intrapopulation variation in tree leaf phenology."	2024
<b>Evolution, Society for the Study of Evolution conference</b> "Mating system evolution and morphological variation: selfing and pollen-collecting hairs"	2023
<b>UVA's Ecology and Evolution group seminar,</b> "Mating system evolution and morphological variation: pollen-collecting hairs"	2022
<b>Brown Bag Lunch Seminar, Center for Global Inquiry and Innovation, UVA</b> "Global perspective on plant mating systems"	2022
<b>UVA's Ecology and Evolution group seminar, "The role of mating system in colonization"</b>	2019
<b>Southeastern Population Ecology and Evolutionary Genetics Conference,</b> "Pollen limitation and outcrossing rate beyond the range " (Poster)	2019
<b>Biology Department Graduate Student symposium, UVA</b> "Nanopore sequencing, hybrid assembly, and genome annotation" (Poster)	2019
<b>Botany, Botanical Society of America conference</b> "What makes scents sexy: the chemical composition of the scent of <i>Canella winterana</i> during sexual development"	2018

## Professional Development

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<b>Workshop on Molecular Evolution, Marine Biological Laboratory, Woods Hole, MA</b>	2024
<b>Evolutionary Biology Graduate Student Workshop, Mountain Lake Biological Station</b>	2019

## Service & Outreach

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<b>Graduate Student Research Award Committee, Botanical Society of America</b>	2024-2026
<b>Friends of the Forest public outreach lecture, Black Rock Forest</b>	2023
<b>Language Consultant, Center for American English Language &amp; Culture, University of Virginia</b>	2019- 22
<b>ESLA, Center for American English Language &amp; Culture, University of Virginia</b>	2020-21
<b>Social Chair, Graduate Student and Post-Doctoral Association, University of Virginia.</b>	2020-21
<b>Western Albemarle's Environmental Science Academy Research Projects</b>	Spring/Fall 2019

## References

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<b>Dr. Laura Galloway</b> , Ph.D. advisor	lg8b@virginia.edu
<b>Dr. Ana Carnaval</b> , Postdoc co-advisor	acarnaval@ccny.cuny.edu
<b>Dr. Andy Reinmann</b> , Postdoc co-advisor	areinmann@gc.cuny.edu
<b>Dr. Amanda Gibson</b> , Ph.D. committee member	akg5nq@virginia.edu
<b>Dr. Isabel Ashton</b> , Black Rock Forest executive director	iashton@blackrockforest.org