Corlett Wolfe Wood

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Professional Appointments

2016–*present* **Ecology & Evolutionary Biology Postdoctoral Fellow**, University of Toronto
Supervisor: Dr. John Stinchcombe

2015–2016 **Postdoctoral Researcher**, University of Toronto
Supervisor: Dr. John Stinchcombe

Education

2009–2015 **Ph.D. in Biology**, University of Virginia
Advisor: Dr. Edmund Brodie III
Dissertation: "The consequences of environmental heterogeneity for fitness, selection, and inheritance"

2004–2008 **B.A. in English Literature**, Swarthmore College
High Honors, Phi Beta Kappa

Fellowships, Awards, and Grants

Fellowships and Awards

2018-2019 Banting Postdoctoral Fellowship, NSERC Canada
(*starting spring 2018*)

2016-*present* Ecology & Evolutionary Biology Postdoctoral Fellowship, University of Toronto

2016 Andrew Fleming Prize in Biology, University of Virginia
For a dissertation of outstanding quality, originality, and significance

2010-2013 Graduate Research Fellowship, National Science Foundation

2009-2014 Graduate Fellowship, Jefferson Scholars Foundation

2009 Vice Presidential Fellowship, University of Virginia

Grants

2013	Doctoral Dissertation Improvement Grant, NSF	($20,439)
2012	Grant-in-Aid of Research, Society for Integrative & Comparative Biology	($900)
2012	Grant-in-Aid of Research, Sigma Xi	($900)
2012	Student Research Award, American Society of Naturalists	($2,000)
2011	Rosemary Grant Award, Society for the Study of Evolution	($2,412)

Publications

undergraduate coauthors are underlined

15. **Wood CW**, B Pilkington, P Vaidya, C Biel, and JR Stinchcombe. Genetic conflict with a parasitic nematode disrupts the legume-rhizobia mutualism. Accepted to **Evolution Letters**.

14. **Wood CW**, EW Wice, J del Sol, S Paul, BJ Sanderson, and ED Brodie III. 2018. Constraints imposed by a natural landscape override offspring fitness effects to shape oviposition decisions in wild forked fungus beetles. **The American Naturalist**. *https://doi.org/10.1086/696218*

13. **Wood CW** and JR Stinchcombe. 2017. News & Views: A window into the transcriptomic basis of genotype-by-genotype interactions in the legume-rhizobia mutualism. **Molecular Ecology** 26:5869-5871. *News & Views on Burghardt et al. 2017, Molecular Ecology*.

12. Harrison TL, **CW Wood**, KD Heath, and JR Stinchcombe. 2017. Geographically structured genetic variation in the *Medicago lupulina-Ensifer* mutualism. **Evolution** 71:1787-1801.

11. Harrison TL*, **CW Wood***, I Borges, and JR Stinchcombe. 2017. No evidence for adaptation to local rhizobial mutualists in the legume *Medicago lupulina*. **Ecology and Evolution** 7:4367-4376. *** equal contribution**

10. **Wood CW** and ED Brodie III. 2016. Evolutionary response when selection and genetic variation covary across environments. **Ecology Letters** 19:1189-1200. **Recommended by F1000**

9. **Wood CW** and ED Brodie III. 2016. Measuring Selection. pp. 104-111 in **Encyclopedia of Evolutionary Biology**. Edited by RM Kliman. Elsevier.

8. Formica VA, **CW Wood**, P Cook, and ED Brodie III. 2016. Consistency of animal social networks after disturbance. **Behavioral Ecology** 28:85-93.

7. **Wood CW** and ED Brodie III. 2015. Environmental effects on the structure of the G-matrix. **Evolution** 69:2927-2940.

6. **Wood CW**, HE Marti, and ED Brodie III. 2014. The effect of ecological context and relatedness on larval cannibalism in a fungus-associated beetle. **Behavioral Ecology** 25:951-959.

5. **Wood CW**, HM Donald, VA Formica, and ED Brodie III. 2013. Surprisingly little population genetic structure in a fungus-associated beetle despite its exploitation of multiple hosts. **Ecology and Evolution** 3:1484-1494.

4. Donald HM, **CW Wood**, KM Benowitz, RA Johnson, ED Brodie III, and VA Formica. 2012. Nondestructive sampling of insect DNA from defensive secretion. **Molecular Ecology Resources** 12:856-860.

3. Formica VA, **CW Wood**, W Larsen, RE Butterfield, ME Augat, H Hougen, and ED Brodie III. 2011. Fitness consequences of social network position in a wild population of forked fungus beetles (*Bolitotherus cornutus*). **Journal of Evolutionary Biology** 25:130-137.

2. Formica VA, JW McGlothlin, **CW Wood**, ME Augat, RE Butterfield, ME Barnard, and ED Brodie III. 2011. Phenotypic assortment mediates the effect of social selection in a wild beetle population. **Evolution** 65:2771-2781.

1. Formica VA, ME Augat, ME Barnard, RE Butterfield, **CW Wood**, and ED Brodie III. 2010. Using home range estimates to construct social networks for species with indirect behavioral

interactions. **Behavioral Ecology and Sociobiology** 64:1199-1208.

In Preparation (Manuscripts available upon request)

Wood CW, JR Stinchcombe, and S Wright. *In prep*. Population genomic signatures of selection in a single *Capsella grandiflora* population.

Presentations

Invited Seminars

Drexel University	2018
University of Utah	2018
University of Tennessee Knoxville	2018
Swarthmore College	2017
University of Pittsburgh	2017
Lehigh University	2017
Carleton University	2017
Davidson College	2017
Bucknell University	2017
University of Tulsa	2017
Ohio State University	2017
University of Vermont	2017
Mountain Lake Biological Station	2017
University of Guelph	2016
Duke University	2015
University of Toronto	2015
University of Minnesota	2015

Contributed Talks

undergraduate coauthors are underlined

Wood CW, B Pilkington, P Vaidya, and JR Stinchcombe. 2017. Conflict between symbionts: Can plants repel parasitic nematodes while attracting mutualistic bacteria? Evolution. Portland, Oregon.

Wood CW, JR Stinchcombe, and SI Wright. 2016. Population genomic signatures of selection in a single *Capsella grandiflora* population. Evolution. Austin, Texas.

Wood CW and ED Brodie III. 2015. The use of multiple host resources generates fitness variation in a mycophagous beetle. Evolution. Guarujá, Brazil.

Wood CW and ED Brodie III. 2014. Environmental effects on genetic covariances. Evolution. Raleigh, NC.

Wood CW, HE Marti, J del Sol, and ED Brodie III. 2013. Host fungus effects on larval phenotype in forked fungus beetles. Southeastern Population Ecology and Evolutionary Genetics (SEPEEG). Mountain Lake Biological Station, VA.

Wood CW and ED Brodie III. 2013. Evolutionary response when selection and heritability covary. Evolution. Snowbird, UT.

Wood CW, EW Wice, and ED Brodie III. 2012. Patterns of oviposition in forked fungus beetles. SEPEEG. Clemson, SC.

Wood CW, HM Donald, and ED Brodie III. 2011. Population genetic structure in a beetle that exploits multiple sympatric host fungi. SEPEEG. Reidsville, NC.

POSTERS

Wood CW, HM Donald, VA Formica, and ED Brodie III. 2012. No evidence for habitat-associated population structure in a fungus beetle. Evolution. Ottawa, ON.

Wood CW, VA Formica, and ED Brodie III. 2011. Individual social network position is not consistent in captive beetle populations. Evolution. Norman, OK.

Teaching and Mentorship

2014-*present*	Co-designed and -taught a research and statistics workshop series *Mountain Lake Biological Station REU program*
2011–2014	Mentor, NSF Research Experiences for Undergraduates (REU) *Mountain Lake Biological Station*
2011	Teaching Assistant, Introduction to Cell Biology and Genetics *University of Virginia*

GUEST LECTURES

Sweet Briar College	Evolution (upper-level undergraduate)
U. Virginia	Behavioral Ecology (upper-level undergraduate)
	Advanced Evolution (graduate)

RESEARCH STUDENTS MENTORED (12 TOTAL)

U. Toronto	Caroline Biel	*Dose-response to rhizobia and nematodes in* Medicago
	Bonnie Pilkington	*Variation in infection ability in plant-parasitic nematodes*
	Priya Vaidya	Medicago *resistance to plant-parasitic nematodes*
	Isabela Borges	*Local adaptation in the* Medicago*-rhizobia system*
U. Virginia	Joanna Lee	*Gut microbiota and larval growth in forked fungus beetles*
	Angela Menna	*The ecology of phoretic mites of forked fungus beetles*
	Sarah Paul	*Oviposition site choice in a beetle that uses three fungi*
	Eric Wice	*Patterns of oviposition in natural fungus beetle population*
	Hannah Donald	*Fungus effects on genetic structure in a fungus beetle*
U. Puerto Rico	Diana Figueroa	*Are egg casings a maternal effect in a fungus beetle?*
St. Olaf College	Hannah Marti	*Context-dependent cannibalism in forked fungus beetles*
Hendrix College	Jill del Sol	*Fungus effects on larval growth in forked fungus beetles*

Service and Outreach

REVIEWER

Nature Ecology & Evolution, *Proceedings of the Royal Society B*, *The American Naturalist*, *Evolution*, *eLife*, *Axios*, *Molecular Ecology*, *Journal of Insect Behavior*, *PLoS ONE*

PROFESSIONAL SERVICE

Delivered a data-driven lecture on the benefits of diversity in science
U. Toronto Ecology & Evolutionary Biology series on diversity and equity, 2017

Co-led annual women-in-science discussions
Mountain Lake Biological Station REU program, 2014-2015

Co-organized 2 academic meetings
SouthEastern Population Ecology and Evolutionary Genetics, 2013
Jefferson Scholars Foundation Forum for Interdisciplinary Dialogue, 2012

Editorial Board, *Jefferson Journal of Science and Culture* (U. Virginia)
Co-Editor-in-Chief (2012-2014) & Natural Sciences Editor (2011-2012)

OUTREACH

Designed and ran interactive public science exhibits
Mountain Lake Biological Station Public Open Houses, 2014-2015
University of Virginia Entomology Club community science events 2014-2015

Co-organized UVA Darwin Day 2014

Co-led workshop for Ecological Society for America's SEEDS program
Mountain Lake Biological Station

PROFESSIONAL MEMBERSHIPS

Society for Integrative and Comparative Biology

American Society of Naturalists

Society for the Study of Evolution

Sigma Xi

References

Dr. John Stinchcombe
Postdoctoral advisor

Professor, University of Toronto
Director, Koffler Scientific Reserve at Jokers Hill

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Dr. Edmund Brodie III
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B.F.D. Runk Professor in Botany, University of Virginia
Director, Mt. Lake Biological Station

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