

Corlett Wolfe Wood

University of Pennsylvania
Department of Biology
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Professional Appointments

2020–present **Assistant Professor**, University of Pennsylvania

2018–2020 **Assistant Professor**, University of Pittsburgh

2015–2018 **Postdoctoral Fellow**, University of Toronto
Advisor: Dr. John Stinchcombe

2018: *Banting Postdoctoral Fellow*
2016–2018: *Ecology & Evolutionary Biology Postdoctoral Fellow*
2015–2016: *Postdoctoral Researcher*

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

Grants, Fellowships, and Awards

GRANTS

2019	Frank J. Schwartz Early Career Research Fellowship <i>Pymatuning Lab of Ecology</i>	(\$9,900)
2013	Doctoral Dissertation Improvement Grant <i>National Science Foundation</i>	(\$20,439)
2012	Grant-in-Aid of Research <i>Society for Integrative & Comparative Biology</i>	(\$900)
2012	Grant-in-Aid of Research <i>Sigma Xi</i>	(\$900)
2011	Student Research Award <i>American Society of Naturalists</i>	(\$2,000)
2011	Rosemary Grant Award <i>Society for the Study of Evolution</i>	(\$2,412)

FELLOWSHIPS AND AWARDS

2018–2019 Banting Postdoctoral Fellowship
NSERC Canada

2016-2018	Ecology & Evolutionary Biology Postdoctoral Fellowship <i>University of Toronto</i>
2016	Andrew Fleming Prize in Biology <i>For a dissertation of outstanding quality, originality, and significance</i> <i>University of Virginia</i>
2010-2013	Graduate Research Fellowship <i>National Science Foundation</i>
2009-2014	Graduate Fellowship <i>Jefferson Scholars Foundation, University of Virginia</i>
2009	Vice Presidential Fellowship <i>University of Virginia</i>

Publications

undergraduate coauthors are underlined

PUBLISHED & IN PRESS

18. Josephs, EB, YW Lee, **CW Wood**, DJ Schoen, SI Wright, and JR Stinchcombe. 2020. The evolutionary forces shaping cis and trans regulation of gene expression within a population of outcrossing plants. **Molecular Biology and Evolution** 37(8): 2386-2393.
17. Cassidy S, A Burr, R Reeb, A. Melero Pardo, K Woods, and **CW Wood**. 2020. Using clear plastic CD cases as low-cost mini-rhizotrons to phenotype root traits and root-associated symbioses. **Applications in Plant Sciences** 8(4): e11340
Invited Special Article for the Special Issue "Conducting Botanical Research with Limited Resources: Low-cost Methods in the Plant Sciences"
16. Rebolleda-Gomez M and **CW Wood**. 2019. Unclear intentions: eavesdropping in microbial and plant systems. **Frontiers in Ecology and Evolution** 7:10.3389/fevo.2019.00385
Invited submission for the Research Topic "How Enemies Shape Communication Systems: Sensory Strategies of Prey to Avoid Eavesdropping Predators and Parasites"
15. **Wood CW**, B Pilkington, P Vaidya, C Biel, and JR Stinchcombe. 2018. Genetic conflict with a parasitic nematode disrupts the legume-rhizobia mutualism. **Evolution Letters** 2: 233-245.
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** 191:524-538
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. Population genomic signatures of selection in a single *Capsella grandiflora* population. *In prep.*

Presentations

INVITED SEMINARS

2021	University of Montana	<i>upcoming</i>
2020	University of Minnesota	<i>upcoming</i>
	University of Wisconsin-Madison	<i>upcoming</i>
	Ecological Society of America 2020	
	Michigan State University	
	Kellogg Biological Station	
	University of Pennsylvania	
2019	Pymatuning Laboratory of Ecology	
2018	Drexel University	

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

CONTRIBUTED PRESENTATIONS

undergraduate coauthors are underlined

- 2019 Evolution 2019 (Providence, RI)
Wood CW, A Burr, and S Cassidy
 Symposium for Ecological Research (Cleveland, OH) (*poster*) **awarded 3rd prize**
McFadden CJ, S Markalanda, S Cassidy, and **CW Wood**
- 2018 Evolution / European Society for Evolutionary Biology (Montpellier, France) (*poster*)
Wood CW, B Pilkington, P Vaidya, C Biel, and JR Stinchcombe
 Three Rivers Ecology and Evolution (Pittsburgh, PA)
Wood CW, B Pilkington, P Vaidya, C Biel, and JR Stinchcombe
 Green Life Sciences (Ann Arbor, Michigan)
Wood CW, B Pilkington, P Vaidya, C Biel, and JR Stinchcombe
 Phytobiomes (State College, Pennsylvania)
Wood CW, B Pilkington, P Vaidya, C Biel, and JR Stinchcombe
- 2017 Evolution 2017 (Portland, Oregon)
Wood CW, B Pilkington, P Vaidya, and JR Stinchcombe
 American Genetic Association (AGA) President's Symposium (Toronto, ON) (*poster*)
Wood CW, B Pilkington, P Vaidya, C Biel, and JR Stinchcombe
- 2016 Evolution 2016 (Austin, Texas)
Wood CW, JR Stinchcombe, and SI Wright.
- 2015 Evolution 2015 (Guarujá, Brazil)
Wood CW and ED Brodie III.
- 2014 Evolution 2014 (Raleigh, North Carolina)
Wood CW and ED Brodie III.
- 2013 SouthEastern Population Ecology & Evolutionary Genetics (Pembroke, Virginia)
Wood CW, HE Marti, J del Sol, and ED Brodie III

- Evolution 2013 (Snowbird, UT)
Wood CW and ED Brodie III
- 2012 Evolution / European Society for Evolutionary Biology (Ottawa, Ontario) (*poster*)
Wood CW, HM Donald, VA Formica, and ED Brodie III
- SouthEastern Population Ecology & Evolutionary Genetics (Clemson, South Carolina)
Wood CW, EW Wice, and ED Brodie III
- 2011 Evolution 2011 (Norman, Oklahoma) (*poster*)
Wood CW, VA Formica, and ED Brodie III
- SouthEastern Population Ecology & Evolutionary Genetics (Reidsville, North Carolina)
Wood CW, HM Donald, and ED Brodie III

Teaching

- 2019 Population Biology (BIOSC 1320 / 2320) (*undergraduate / graduate*)
University of Pittsburgh
- 2014-present Research and statistics workshop
Mountain Lake Biological Station REU program
- 2013 Guest lecturer, Evolution (upper-level undergraduate)
Sweet Briar College
- Guest lecturer, Behavioral Ecology (upper-level undergraduate)
University of Virginia
- Guest lecturer, Advanced Evolution (graduate)
University of Virginia
- 2011 Teaching Assistant, Introduction to Cell Biology and Genetics
University of Virginia

Mentorship

POST-DOCTORAL MENTORING

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| Emile Gluck-Thaler | 2019-present | |
| Samantha Catella | 2019-present | <i>Pittsburgh Ecology & Evolution Postdoc Fellow;
co-mentored with Dr. Sara Kuebbing</i> |

GRADUATE MENTORING

PhD Advisor

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| MacCall (Mac) Calvert | 2019-present |
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Graduate Dissertation Committees

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| Nevin Cullen (PhD) | 2019-present |
| Veronica Iriart (PhD) | 2019-present |
| Castilleja Olmsted (PhD) | 2019-present |
| Rachel Reeb (PhD) | 2019-present |
| Elizabeth Rudzki (PhD) | 2019-present |
| Taylor Zallek (PhD) | 2019-present |

Graduate Rotation Students

Veronica Iriart	2019
Castelleja Olmsted	2019
Rachel Reeb	2018

Graduate Journal Clubs

Microbiomes	2018-present	
Species Interactions	2018-present	
Evolution	2018-present	
Experimental Design	2018-present	faculty organizer
Evolutionary Genetics	2015-2018	

Graduate Professional Development

Colloquium on Career Development in E & E	2018-present
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UNDERGRADUATE RESEARCH MENTORING (19 TOTAL)

Audrey Burr	2019-present	U. Pittsburgh; Mentor-Mentee Research Fellow
Naomi (Pooja) Jacob	2019-present	U. Pittsburgh; Mentor-Mentee Research Fellow
Shaniya Markalanda	2019-present	U. Pittsburgh
Connor McFadden	2019-present	U. Pittsburgh
Ana Melero Pardo	2019-present	U. Pittsburgh
Kristine Rozum	2019	U. Pittsburgh
Kamron Woods	2019	U. Pittsburgh
Bonnie Pilkington	2016-2018	U. Toronto
Priya Vaidya	2016-2018	U. Toronto
Caroline Biel	2016-2017	U. Toronto
Isabela Borges	2015-2016	U. Toronto
Joanna Lee	2014-2015	Mountain Lake REU Program; U. Virginia
Diana Pabon Figueroa	2014	Mountain Lake REU Program
Angela Menna	2013-2014	U. Virginia
Sarah Paul	2013-2014	U. Virginia
Hannah Marti	2013	Mountain Lake REU Program
Jillian del Sol	2013	Mountain Lake REU Program
Eric Wice	2012-2013	Mountain Lake REU Program; U. Virginia
Hannah Donald	2011	Mountain Lake REU Program

Service

PROFESSIONAL SERVICE

Grant Reviews

2020	Ad-hoc grant reviewer, National Science Foundation
2019	Panelist, National Science Foundation

Book Reviews

2020	University of Chicago Press
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Manuscript Reviewer for *The American Naturalist*, *Axios*, *BMC Evolutionary Biology*, *Ecography*, *Ecology*, *eLife*, *Evolution*, *ISME*, *Journal of Insect Behavior*, *Molecular Ecology*, *Nature Ecology & Evolution*, *New Phytologist*, *PLoS ONE*, *Proceedings of the Royal Society B*, *Scientific Reports*

Conferences and Symposia

- 2018 **Co-organizer of an invited symposium**
"Parasite and symbiont niches: host specificity and beyond"
Joint Evolution / ESEB meeting in Montpellier, France, 2018
- 2013 **Conference co-organizer**
Southeastern Population Ecology and Evolutionary Genetics
- 2012 **Conference co-organizer**
Jefferson Scholars Foundation Forum for Interdisciplinary Dialogue
- 2011-2014 **Jefferson Journal of Science and Culture** (U. Virginia)
Co-Editor-in-Chief 2012-2014
Natural Sciences Editor 2011-2012

Trainee Professional Development

- 2019 **Poster & Talk Judge:** Hamilton Award (best student talk) and best student poster
Annual Evolution conference
- 2018-2019 **Faculty mentor, Faculty-Student Networking Lunches**
Annual Evolution conference

DEPARTMENTAL SERVICE

- 2019- Graduate Funding and Fellowships Committee
2018- Pymatuning Laboratory of Ecology Oversight Committee

DIVERSITY AND INCLUSION INITIATIVES

- 2019 **Invited faculty member: Women in Biology networking event**
Carnegie Mellon University
- 2019 **Invited panelist: Q&A with Women in Science & Engineering**
Panelist for a Women in Science grad student group
- 2017 **Delivered a data-driven lecture on the benefits of diversity in science**
U. Toronto Ecology & Evolutionary Biology series on diversity and equity
- 2014-2015 **Co-leader of annual women-in-science discussions**
Mountain Lake Biological Station REU program
- 2010 **Research workshop co-leader**
Co-led workshop for Ecological Society for America's SEEDS program

Outreach

- 2019 **Market Science: designed interactive exhibit for a farmer's market**
Pittsburgh, PA

- 2018 **Coordinated an interactive research exhibit for visiting high-school students**
Pittsburgh, PA
- 2014-2015 **Designed and ran interactive public science exhibits**
Mountain Lake Biological Station Public Open House
- 2014-2015 **Designed and ran interactive public science exhibits**
University of Virginia Entomology Club community science events
- 2014 **Co-organizer, Darwin Day**
University of Virginia

Updated October 30, 2020