

Corlett Wolfe Wood

University of Pennsylvania
Department of Biology
433 S. University Ave
Philadelphia, PA 19104

website: www.the-wood-lab.com **email:** corlett@sas.upenn.edu **phone:** (215) 573-4560

Professional Appointments

2020– **Assistant Professor**, University of Pennsylvania
2018–2020 **Assistant Professor**, University of Pittsburgh
2015–2018 **Postdoctoral Fellow**, University of Toronto *Advisor:* Dr. John Stinchcombe
Banting Postdoctoral Fellow (2018)
Ecology & Evolutionary Biology Postdoctoral Fellow (2016-2018)

Education

2009–2015 **Ph.D. in Biology**, University of Virginia *Advisor:* Dr. Edmund Brodie III
"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

2021-2024	NSF-DEB: " <i>The evolutionary significance of genetic pleiotropy in species interactions</i> " (Role: PI)	\$875,000
2019	Pymatuning Lab of Ecology Early Career Research Fellowship	\$9,900
2013	NSF Doctoral Dissertation Improvement Grant	\$20,439
2012	SICB Grant-in-Aid of Research	\$900
2012	Sigma Xi Grant-in-Aid of Research	\$900
2011	American Society of Naturalists Student Research Award	\$2,000
2011	Society for the Study of Evolution Rosemary Grant Award	\$2,412

FELLOWSHIPS AND AWARDS

2018-2019 **NSERC Canada** Banting Postdoctoral Fellowship
2016-2018 **University of Toronto** Ecology & Evolutionary Biology Postdoctoral Fellowship
2016 *Andrew Fleming Prize in Biology: For a dissertation of outstanding quality, originality, and significance (University of Virginia)*
2010-2013 **NSF** Graduate Research Fellowship
2009-2014 **Jefferson Scholars Foundation** Graduate Fellowship
2009 **University of Virginia** Vice Presidential Fellowship

Publications

trainee coauthors are underlined

21. Burr AB, KD Woods, ST Cassidy, and **CW Wood**. *In press*. Priority effects alter the colonization success of a host-associated parasite and mutualist. **Ecology**

20. Catella S, CF Olmsted, S Markalanda, C McFadden, **CW Wood ***, and SE Kuebbing *. *In press*. Infection dynamics of a generalist pathogen cannot be inferred from host competitive performance. *New Phytologist* ***Equal contribution**
19. Markalanda S, CJ McFadden, ST Cassidy, and **CW Wood**. *In press*. The soil microbiome increases plant survival and modifies interactions with root endosymbionts in the field. *Ecology and Evolution*
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*)

[Cassidy ST](#), [S Markalanda](#), [CJ McFadden](#), and **CW Wood**. Aboveground herbivory modifies a below-ground mutualism but not a root parasitism. *Submission to Ecology anticipated November 2021*

Seminars, Conferences, and Working Groups

INVITED SEMINARS

2022	Emory University (<i>upcoming</i>)	2017	Swarthmore College University of Pittsburgh
2021	Indiana University University of Montana		Lehigh University Carleton University
2020	University of Minnesota University of Wisconsin-Madison Ecological Society of America 2020 Michigan State University Kellogg Biological Station University of Pennsylvania		Davidson College Bucknell University University of Tulsa Ohio State University University of Vermont Mountain Lake Biological Station
2019	Pymatuning Laboratory of Ecology	2016	University of Guelph
2018	Drexel University University of Utah University of Tennessee Knoxville	2015	Duke University University of Toronto University of Minnesota

WORKING GROUPS

- 2021- “Mechanisms and Quantification of Priority Effects”
German Centre for Integrative Biodiversity Research
PIs: Benjamin Delory and Tadashi Fukami

CONFERENCE PRESENTATIONS

“Trainee”: trainee-delivered presentation

2021	Evolution 2021	Trainee	Virtual (COVID-19)
2020	Ecological Society of America 2020 <i>Invited symposium talk: “Mutualists As Community Architects: A Trait-Based Approach”</i>	Talk	Virtual (COVID-19)
2019	Evolution 2019 Symposium for Ecological Research (3rd prize)	Talk	Providence, RI
2018	Evolution / European Society for Evolutionary Biology Three Rivers Ecology and Evolution Green Life Sciences Phytobiomes	Trainee Poster Talk Talk Talk	Cleveland, OH Montpellier, France Pittsburgh, PA Ann Arbor, MI State College, PA
2017	Evolution 2017 American Genetic Association Symposium	Talk Poster	Portland, OR Toronto, Canada
2016	Evolution 2016	Talk	Austin, TX
2015	Evolution 2015	Talk	Guarujá, Brazil
2014	Evolution 2014	Talk	Raleigh, NC
2013	Southeastern Pop. Ecology & Evolutionary Genetics Evolution 2013	Talk Talk	Pembroke, VA Snowbird, UT
2012	Evolution / European Society for Evolutionary Biology Southeastern Pop. Ecology & Evolutionary Genetics	Poster Talk	Ottawa, Canada Clemson, SC
2011	Evolution 2011 Southeastern Pop. Ecology & Evolutionary Genetics	Poster Talk	Norman, OK Reidsville, NC

Teaching

COURSES

2021	Analysis of Biological Data (BIOL 447) (<i>undergrad / grad; 32 students</i>)	<i>U. Pennsylvania</i>
2019	Population Biology (BIOSC 1320 / 2320) (<i>undergrad / grad; 55 students</i>)	<i>U. Pittsburgh</i>

WORKSHOPS

2014-	Field Research & Statistics (<i>10-12 students annually</i>) <i>Canceled due to COVID-19 in 2020</i> <i>Declined for parental leave in 2021</i>	<i>Mt. Lake REU program</i>
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GUEST LECTURES AND TA-SHIPS

2020-21	Guest lecturer, Ecology (BIOL 240) (undergraduate)	<i>U. Pennsylvania</i>
2013	Guest lecturer, Evolution (undergraduate) Guest lecturer, Behavioral Ecology (undergraduate) Guest lecturer, Advanced Evolution (graduate)	<i>Sweet Briar College</i> <i>U. Virginia</i> <i>U. Virginia</i>
2011	Teaching Assistant, Introduction to Cell Biology and Genetics	<i>U. Virginia</i>

Mentorship

POST-DOCS

Emile Gluck-Thaler	2019-2021	
Samantha Catella	2019-2021	<i>Pittsburgh Ecology & Evolution Postdoc Fellow; co-mentored with Dr. Sara Kuebbing</i>

GRADUATE STUDENTS

PhD Advisor

MacCall (Mac) Calvert	2019-
Addison Martin	2021-

Dissertation Committees

Sung-Ya Lin	2021-
Eeman Abbasi	2021-
Bishwas Sharma	2021-
Zachary Oppler	2021-

Veronica Iriart	2019-	<i>U. Pittsburgh</i>
Nevin Cullen	2019-2020	<i>U. Pittsburgh</i>
Castilleja Olmsted	2019-2020	<i>U. Pittsburgh</i>
Rachel Reeb	2019-2020	<i>U. Pittsburgh</i>
Elizabeth Rudzki	2019-2020	<i>U. Pittsburgh</i>
Taylor Zallek	2019-2020	<i>U. Pittsburgh</i>

Graduate Rotation Students

Addison Martin	2021
Benjamin Glass	2021

Veronica Iriart	2019	<i>U. Pittsburgh</i>
Castilleja Olmsted	2019	<i>U. Pittsburgh</i>
Rachel Reeb	2018	<i>U. Pittsburgh</i>

RESEARCH TECHNICIANS

Eunnuri Yi	2020-
Lauren Kerwein	2019-2020
Steven Cassidy	2018-2019

UNDERGRADUATE RESEARCH STUDENTS (25 TOTAL)

University of Pennsylvania

Yasmeeen Haruna	2021	PURM Fellow	Kristine Rozum	2019
Anisa Robinson	2021-	PURM Fellow	Kamron Woods	2019

Nova Meng	2021-	PURM Fellow	University of Toronto	
Linda Wu	2021-	PURM Fellow	Bonnie Pilkington	2016-18
Aubrey Welch	2021	PennFERBS	Priya Vaidya	2016-18
Arsam Shaikh	2021	PennFERBS	Caroline Biel	2016-17
			Isabela Borges	2015-16

University of Pittsburgh

Audrey Burr	2019-21	Mentor-Mentee
Naomi (Pooja) Jacob	2019-20	Mentor-Mentee
Shaniya Markalanda	2019-21	
Connor McFadden	2019-20	
Ana Melero Pardo	2019-20	

Mountain Lake REU Program

Joanna Lee	2014-15
Diana Pabon Figueroa	2014
Hannah Marti	2013
Jillian del Sol	2013
Eric Wice	2012-13

Hannah Donald 2011

Angela Menna 2013-14

Sarah Paul 2013-14

University of Virginia

Service & Outreach

PROFESSIONAL SERVICE

Grant Reviews

2020 Ad-hoc grant reviewer, National Science Foundation

2019 Panelist, National Science Foundation

Book Reviews

2020 University of Chicago Press

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, Symposia, and Professional Societies

2019 **Hamilton Award judge** (best student talk), Evolution 2019

2019 **Poster judge**, Evolution 2019

2018-2019 **Faculty mentor**, faculty-student networking lunches, Evolution 2018-2019

2018 **Symposium co-organizer**, Evolution / ESEB 2018 (Montpelier, France)
"Parasite and symbiont niches: host specificity and beyond"

2013 **Conference co-organizer**, Southeastern Population Ecology & Evo. Genetics

2012 **Conference co-organizer**, Jefferson Scholars Foundation Forum for
Interdisciplinary Dialogue

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

DEPARTMENTAL SERVICE

2021- Penn Plant Seminar Series Co-organizer

2020-2021 First-year Graduate Student Advising Committee

2019-2020 Graduate Funding and Fellowships Committee

U. Pittsburgh

2018-2020 Pymatuning Laboratory of Ecology Oversight Committee

U. Pittsburgh

2018-2020 Organizer, Experimental Design Journal Club

U. Pittsburgh

2018-2020 Presenter, Colloquium on Career Development in E & E

U. Pittsburgh

2015-2020 Organizer, Evolutionary Genetics Journal Club

U. Toronto

DIVERSITY AND INCLUSION INITIATIVES

2021- **Faculty mentor**, Penn Undergraduate Research Mentoring (PURM) Program

2021 **Faculty mentor**, Freshmen Exposure to Research in Biological Science (FERBS)

2019 **Faculty mentor**, Women in Biology networking event, Carnegie Mellon University

2019 **Panelist**, Q&A with Women in Science & Engineering grad student group

2017 Wrote and 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**, women-in-science discussions, *Mt. Lake REU program*
2010 **Co-leader**, field research workshop, Ecological Society for America SEEDS

OUTREACH

- 2019 Designed an exhibit based on our lab's research for Market Science, a farmer's market-based outreach event, U. Pittsburgh
2018 Organized a research exhibit for high-school students, U. Pittsburgh
2014-2015 Designed and ran interactive public science exhibits
Mountain Lake Biological Station Public Open House
University of Virginia Entomology Club community science events
2014 Co-organizer, University of Virginia Darwin Day

Updated October 2021