Jason G. Wallace

Associate Professor

Curriculum Vitae January 2025

Department of Crop & Soil Sciences, University of Georgia

wallacelab.uga.edu +1-706-542-9696

☑ jason.wallace@uga.edu

(7) jgwall

in jason-wallace-a874b845 0000-0002-8937-6543

Academic History

Present Rank Associate Professor Recommended Rank Full Professor

Proportion Time Assignment 75% research, 20% teaching, 5% service

Tenure Status Tenured
Graduate Faculty 2015-Present

Education

2011 Ph. D. - Yale University
 2008 M. S. - Yale University
 Molecular, Cellular and Developmental Biology
 Molecular, Cellular and Developmental Biology

2006 B. S. - Brigham Young University Integrative Biology

Professional Experience

2020-Present	Associate Professor	University of Georgia - Crop & Soil Sciences (Athens, GA)
2015-2020	Assistant Professor	University of Georgia - Crop & Soil Sciences (Athens, GA)
2012-2015	Postdoctoral associate	Cornell University (Ithaca, NY)
2006-2011	Graduate research assistant	Yale University (New Haven, CT)
2007-2007	Graduate research intern	Bristol-Myers Squibb Pharmaceuticals (Wallingford, CT)
2005-2006	Undergraduate research assistant	Brigham Young University (Provo, UT)

Awards

March 2019 November 2018	Nomination - 40 under 40 New Innovator in Food and Agriculture Research Award	Georgia Trend Magazine Foundation for Food and Agriculture Research
July 2015	Travel Awards for Early Career Professionals	Phytobiomes Conference 2015
2022	Nomination - William Terrell Distinguished	UGA College of Agriculture and Envrionmental Sciences
	Professor	

Instruction

Instructor of Record

CRSS 8010	Research Methods and Design in Crop Science	3 credits
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Fall 2016Fall 2018Fall 2020

Fall 2022Fall 2024

PBGG 8860 PBGG Student Communication Seminar

1 credit

Spring 2022Spring 2023

Fall 2023Spring 2024

Fall 2024Spring 2025

PBGG 8861 PBGG Student Research Seminar

1 credit

• Spring 2022

• Spring 2023

• Fall 2023

• Spring 2024

• Fall 2024

• Spring 2025

1 credit

1 credit

PBGG 8874 Genomic selection

- Spring 2017
- Spring 2019
- Spring 2021
- Spring 2023
- Spring 2025

PBGG 8875 **Genome-wide association in plants**

• Spring 2017

- Spring 2019
- Spring 2021
- Spring 2023
- Spring 2025

Guest Lectures

24 July 2024	Plant Breeding Practicum - Maize (PBGG 6000)
16 Apr 2024	Genome-wide Association (CRSS 8872)
6 July 2023	Plant Breeding Practicum - Maize (PBGG 6000)
22 Feb 2023	Rigor and Reproducibility in Research (CBIO 8500)
Fall 2022	PBGG Student Research Seminar (PBGG 8861)
Fall 2022	PBGG Student Communication Seminar (PBGG 8860)
6 July 2022	Plant Breeding Practicum - Maize (PBGG 6000)
30 Jun 2022	Rigor and Reproducibility in Research (CTEGD Lunch & Learn)
12 Apr 2022	Genome-wide Association (CRSS 8872)
13 July 2021	Plant Breeding Practicum - Maize (PBGG 6000)
19 Feb 2021	Rigor and Reproducibility in Research (CBIO 8500)
Spring 2021	PBGG Student Research Seminar (PBGG 8861)
Spring 2021	PBGG Student Communication Seminar (PBGG 8860)
17 Sept 2020	Genome-wide Association (CRSS 8872)
24 May 2019	Plant Breeding Practicum - Maize (PBGG 6000)
20 & 27 Mar 2019	Reproducibility in Research (CTEGD Lunch & Learn)
13 Feb 2019	Maize Domestication (FYOS 1001)
6 Mar 2018	Genome-wide Association (CRSS 8820)

Workshop Instructor

23 Oct 2024	Software Carpentry: R for Reproducible Scientific	Fort Valley State University; Fort Valley, Georgia
	Analysis	
26 Mar 2024	Software Carpentry: Git	UGA Libraries; Athens, Georgia
26 Sep 2023	Software Carpentry: Git	UGA Libraries; Athens, Georgia
15 May 2023	Data Carpentry: Genomics	UGA Institute of Bioinformatics; Athens, Georgia
16 May 2022	Data Carpentry: Genomics	UGA Institute of Bioinformatics; Athens, Georgia
2 Dec 2021	Capacity-Building Workshop: Association Mapping in	Fort Valley State University; Fort Valley, Georgia
	Plants	
29 Oct 2021	Software Carpentry: R for Reproducible Scientific	UGA Institute of Bioinformatics; Athens, Georgia
	Analysis	
5 Jan 2021	Software Carpentry: Git and Python	UGA Institute of Bioinformatics; Virtual
17 Jun 2020	Software Carpentry: R for Reproducible Scientific	UGA Institute of Bioinformatics; Virtual
	Analysis (Session B)	
15 Jun 2020	Software Carpentry: R for Reproducible Scientific	UGA Institute of Bioinformatics; Virtual
	Analysis (Session A)	
4 Dec 2019	Software Carpentry: Unix, Git, and Python	UGA Institute of Bioinformatics; Athens, Georgia
8 Mar 2019	Software Carpentry: R for Reproducible Scientific	UGA Institute of Bioinformatics; Athens, Georgia
	Analysis	

Student Mentorship

Chair (Current)

PhD	2024-present	Behnke, Mary-Frances	UGA Institute of Bioinformatics
PhD	2020-present	Talamantes, Darrian	UGA Institute of Bioinformatics

Chair (Prior)

PhD 2024 Corut, Kivanc UGA Institute of Bioinformatics

PhD	2023	Aduragbemi, Amo	UGA Institute of Plant Breeding, Genetics, and Genomics (Transfer to
DI D			Texas A&M)
	2023	Li, Hanxia	UGA Institute of Bioinformatics
	2023	Schultz, Corey	UGA Institute of Bioinformatics
MS	2022	Griffis, Holly	UGA Department of Genetics
MS	2021	Rodman, Naomi	UGA Department of Crop & Soil Sciences (incomplete)
	2020	Johnson, Matthew	UGA Institute of Plant Breeding, Genetics, and Genomics
MS	2020	Kovar, Lynsey	UGA Institute of Bioinformatics
Co-Ch	air (Prior)		
PhD	2021	Voghoei, Sahar	UGA Department of Computer Science
Comm	nittee Member	(Current)	
PhD	2024-present	Mangla, Hrithik	UGA Department of Crop & Soil Sciences (Andrew Patterson lab)
		Santigo-Sosa, Damian	UGA Department of Marine Science
	2024-present	_	UGA Institute of Plant Breeding, Genetics, and Genomics
		Maharjan, Namrata	UGA Institute of Plant Breeding, Genetics, and Genomics (Soraya
		, , ,	Bertioli Lab)
PhD	2022-present	Ployaram, Wiriyanat	UGA Department of Crop & Soil Sciences (Andrew Patterson lab)
		Pinchi Davila, Xiomy	UGA Department of Plant Pathology (Annie Chung lab)
		Zhang, Shufan	UGA Institute of Bioinformatics (Jonathan Arnold lab)
		_	o o / montace of Bromormatics pondition / mola lab/
Comm	nittee Member	(Prior)	
PhD	2024	Fernandez-Canela, Josue	UGA Department of Plant Biology (Jeff Bennetzen Lab)
PhD	2024	Piri, Rebecca	UGA Institute of Bioinformatics (Kelly Dawe lab)
PhD	2024	Kwon, Khee-Man	UGA Department of Plant Pathology (Melissa Mitchum lab)
PhD	2024	Wright, Hallie	UGA Institute of Plant Breeding, Genetics, and Genomics (Katrien
			Devos lab)
PhD	2023-2024	Newton, Carter	UGA Department of Plant Pathology (Changed committee due to
			project changes)
PhD	2023	Bhattarai, Guarab	UGA Institute of Plant Breeding, Genetics, and Genomics (Patrick
			Connor lab)
PhD	2023	Fleming, Zachary	UGA Institute of Plant Breeding, Genetics, and Genomics (Esther van
			der Knaap lab)
PhD	2023	Miller, Mark	UGA Institute of Plant Breeding, Genetics, and Genomics (Zenglu Li lab)
PhD	2023	Sapkota, Manoj	UGA Institute of Plant Breeding, Genetics, and Genomics (Esther van
			der Knap lab)
MS	2023	Wang, Li	UGA Department of Plant Pathology (Pingsheng Ji lab)
PhD	2022	Adhikari, Jeevan	UGA Plant Genome Mapping Laboratory (Andy Paterson lab)
PhD	2022	Choi, Soyeon	UGA Department of Genetics (Katrien Devos lab)
PhD	2021	Liu, Jianing	UGA Department of Genetics (Kelly Dawe lab)
MS	2021	Meinecke, Colton	UGA Warnell School of Forestry (Caterina Villari lab)
MS	2021	Park, Jubilee	UGA Institute of Plant Breeding, Genetics, and Genomics (Wayne
			Parrott lab)
MS	2021	Pathania, Sakshi	UGA Department of Horticulture (Dario Chavez lab)
PhD	2021	Singh, Lovepreet	UGA Department of Crop & Soil Sciences (Joann Connor / Peggy
			Ozias-Akins lab)
MS	2021	Spruell, Chandler	UGA Institute of Plant Breeding, Genetics, and Genomics (Peggy
			Ozias-Akins lab)
PhD	2021	Tran, Dung("Ivy")	UGA Institute of Plant Breeding, Genetics, and Genomics (Zenglu Li lab)
MS	2020	Conway, Tara	UGA Plant Genome Mapping Laboratory (Andrew Paterson lab)
MS	2020	Moore, Bryshal("Bri")	Fort Valley State University Department of Plant Biotechnology (Som
		· · ·	Punnuri lab)
PhD	2020	Taitano, Nathan	UGA Institute of Plant Breeding, Genetics, and Genomics (Esther van
		•	der Knaap lab)
PhD	2019	Gimode, Davis	UGA Institute of Plant Breeding, Genetics, and Genomics (Peggy
		•	Ozias-Akins lab)
PhD	2019	Taborda, Carolina	UGA Institute of Plant Breeding, Genetics, and Genomics (Scott Jack-
		, .	son lab)
PhD	2018	Steketee, Clint	UGA Institute of Plant Breeding, Genetics, and Genomics (Zenglu Li lab)
	2018	Sumabat, Leilani	UGA Department of Plant Pathology (Marin Brewer lab)
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Visiting Scientists

Spring 2016	Yuan, Yibing	Graduate student	Sichuan Agricultural University, China
Aug 2023 - Feb 2024	Bozic, Manja	Graduate student	University of Belgrade, Serbia
Feb 2024 - Feb 2025	Renato Santos	Postdoc	University of São Paulo, Brazil

Undergraduate Mentoring

Summer 2016 2016-2017 Summer 2016; 2016-2019 2017 Summer 2017 Summer 2017 Summer 2018 Summer 2018 Summer 2018 Summer 2018 Summer 2018 Summer 2018 Summer 2019 Summer 2019 Summer 2019 Summer 2019 Summer 2020 2019-2021 2020-2022 Summer 2020 2019-2021 2021-2022 Summer 2021 Summer 2023 Summer 2023 Summer 2023	Sanford, Tierra Bagwell, John Rodriguez, David Giangacomo, Cecelia Forester, Ethan Mcdonald, Miles Randolf, Hayden Bejdic, Haris Daftarian, Melody Morris, Samuel Sangoyomi, Bamidele Caro, Spencer Andrews, Amaja Leake, Jackson Fox, Laurel Brantley, Kamaya Grindle, Coleman McCabe, Allison Moore, Nathan Duling, Hadden Wideman, Kya Kirkpatrick, Caitlin Quinn, Marielle Pinto, Evonne Sanders, Kai Desai, Hanish Idaewor, Fran Collins, Emma Obialor, Michella Stephen Hedden Kofi Reeves-Miller Zoey Stephens Dan Triplett	Undergraduate field technician (UGA) REU student (New Mexico State University) Undergraduate researcher (UGA) Undergraduate field technician (UGA) Undergraduate intern (Athens Technical College) Undergraduate field technician (UGA) Undergraduate field technician (UGA) Undergraduate field technician (UGA) Undergraduate field technician (UGA) Undergraduate technician (UGA) Undergraduate researcher (UGA) Undergraduate field technician (UGA) Undergraduate researcher (UGA) Undergraduate field technician (UGA) Undergraduate field technician (UGA) Undergraduate field technician (UGA) Undergraduate field technician (UGA) Undergraduate technician (UGA) Undergraduate field technician (UGA)
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Summer 2023	Kenzington Deal	REEU student (UGA)
2024-Present	Chloe Mootz	Undergraduate technician (UGA)
2024-Present	Danni Henricks	Undergraduate technician (UGA)
Summer 2024	Simone Pete	Undergraduate field technician (UGA)
High School Stud	lants	

High School Students

Spring 2018 Weinmeister, Nathan Clarke Central High School

Scholarly Activities

Publications

	Research Article	Review	Book Chapter	Protocol
Associate Professor	27	3	0	5
Assistant Professor	16	2	1	1
Postdoc	1	1	0	0
PhD	3	0	0	0
Total	47	6	1	6

Associate Professor (35)

- Wallace JG, Favela A, Raglin S: Sampling and analysis of the maize microbiome. Cold Spring Harbor Protocols 2024, doi:10.1101/pdb.top108463.
- 2. Favela A, Raglin S, Wallace JG: **Sampling root-associated microbiome communities of maize (zea mays)**. *Cold Spring Harbor Protocols* 2024, doi:10.1101/pdb.prot108580.
- 3. Wallace JG: **Sampling the maize (zea mays) leaf microbiome**. *Cold Spring Harbor Protocols* 2024, doi:10.1101/pdb.prot108581.
- 4. Wallace JG, Laspisa D: **Sampling maize (zea mays) seed endophytes**. *Cold Spring Harbor Protocols* 2024, doi:10.1101/pdb.prot108582.
- 5. Wallace JG, Griffis H: Preparation of illumina 16s amplicon sequencing libraries with peptide nucleic acids (PNAs) for the analysis of maize-associated microbiomes. *Cold Spring Harbor Protocols* 2024, doi:10.1101/pdb.prot108583.
- 6. Raglin SS, Favela A, Laspisa D, Wallace JG: **Manipulating the maize (zea mays) microbiome**. *Cold Spring Harbor Protocols* 2024, doi:10.1101/pdb.prot108584.
- 7. Vetriventhan M, Upadhyaya HD, Deshpande S, Johnson MS, Wallace JG, Victor A, Naresh D, Rayaprolu L, Singh K, Mayes S: Genome-wide assessment of population structure and association mapping for agronomic and grain nutritional traits in proso millet (panicum miliaceum I.). Scientific Reports 2024, 14.
- 8. Kvitko B, Wallace J, Desai HV, Lavender HF, Mijatovic J, Techtmann S, Christner BC, Smith A: **Metagenomic analysis** of a glacial ice core record from the contiguous united states. 2024, doi:10.21203/rs.3.rs-5045654/v1.
- 9. Kusmec A, Yeh C'Eddy', Schnable PS: **Data-driven identification of environmental variables influencing phenotypic plasticity to facilitate breeding for future climates**. *New Phytologist* 2024, **244**:618–634.
- 10. Tran DT, Mitchum MG, Zhang S, Wallace JG, Li Z: Soybean microbiome composition and the impact of host plant resistance. Frontiers in Plant Science 2024, 14.
- 11. Gimode D, Wallace J, Holbrook C, Isleib TG, Chu Y, Virk S, Porter W, Ozias-Akins P: **Genomic selection as an approach to select for reduced aflatoxin contamination in peanut under terminal drought stress**. *Peanut Science* 2024, **51**:18–31.
- 12. Punnuri S, Wallace J, Knoll J: **High-density genotyping for pearl millet linkage map improvement with next-generation sequencing data**. *The pearl millet genome* 2024, doi:10.1007/978-3-031-56976-0_7.
- 13. Talamantes D, Kirkpatrick C, Wallace J: **Developing robust quantitative PCR primers for comparative biomass analysis of tall fescue (festuca arundinacea) and its epichloë endophyte**. 2024, doi:10.17912/micropub.biology.001275.
- 14. Corut AK, Wallace JG: kGWASflow: A modular, flexible, and reproducible snakemake workflow for k-mers-based GWAS. G3: Genes, Genomes, Genetics 2023, 14.
- 15. Laspisa D, Illa-Berenguer E, Bang S, Schmitz RJ, Parrott W, Wallace J: Mining the utricularia gibba genome for insulator-like elements for genetic engineering. Frontiers in Plant Science 2023, 14.
- Lima DC, Aviles AC, Alpers RT, Perkins A, Schoemaker DL, Costa M, Michel KJ, Kaeppler S, Ertl D, Romay MC, et al.:
 2020-2021 field seasons of maize GxE project within the genomes to fields initiative. BMC Research Notes 2023,
 16.
- 17. Li H, Hill N, Wallace J: A perennial living mulch system fosters a more diverse and balanced soil bacterial community. PLOS ONE 2023, 18:e0290608.
- 18. Lima DC, Washburn JD, Varela JI, Chen Q, Gage JL, Romay MC, Holland J, Ertl D, Lopez-Cruz M, Aguate FM, et al.: Genomes to fields 2022 maize genotype by environment prediction competition. BMC Research Notes 2023, 16.
- 19. Adak A, Murray SC, Calderón CI, Infante V, Wilker J, Varela JI, Subramanian N, Isakeit T, Ané J-M, Wallace J, et al.: Genetic mapping and prediction for novel lesion mimic in maize demonstrates quantitative effects from genetic background, environment and epistasis. Theoretical and Applied Genetics 2023, 136.
- 20. Lima DC, Aviles AC, Alpers RT, McFarland BA, Kaeppler S, Ertl D, Romay MC, Gage JL, Holland J, Beissinger T, et al.: 2018–2019 field seasons of the maize genomes to fields (G2F) g x e project. BMC Genomic Data 2023, 24.
- 21. Schultz CR, Johnson M, Wallace JG: **Effects of inbreeding on microbial community diversity of zea mays**. *Microorganisms* 2023, **11**:879.
- 22. Kick DR, Wallace JG, Schnable JC, Kolkman JM, Alaca B, Beissinger TM, Edwards J, Ertl D, Flint-Garcia S, Gage JL, et al.: **Yield prediction through integration of genetic, environment, and management data through deep learning**. *G3*: *Genes*, *Genomes*, *Genetics* 2023, **13**.
- 23. Wallace JG: Maize seed endophytes. Molecular Plant Pathology 2022, 24:801–810.
- 24. Chandnani R, Kim C, Patel JD, Guo H, Shehzad T, Wallace JG, He D, Zhang Z, Adhikari J, Khanal S, et al.: Identification of small effect quantitative trait loci of plant architectural, flowering, and early maturity traits in reciprocal interspecific introgression population in cotton. Frontiers in Plant Science 2022, 13.

- 25. Punnuri SM, Ayele AG, Harris-Shultz KR, Knoll JE, Coffin AW, Tadesse HK, Armstrong JS, Wiggins TK, Li H, Sattler S, et al.: **Genome-wide association mapping of resistance to the sorghum aphid in sorghum bicolor**. *Genomics* 2022, **114**:110408.
- 26. Schultz CR, Brantley KM, Wallace JG: The role of genetic variation in zea mays response to beneficial endophytes. Plant Growth Regulation 2022, **98**:167–177.
- 27. Park JY, Kovar L, LaFayette PR, Wallace JG, Parrott WA: **Plant-derived insulator-like sequences for control of transgene expression**. 2021, doi:10.1101/2021.11.04.467280.
- 28. Brown N, Branch WD, Johnson M, Wallace J: **Genetic diversity assessment of georgia peanut cultivars developed during ninety years of breeding**. *The Plant Genome* 2021, **14**.
- 29. Johnson MS, Wallace JG: **Genomic and chemical diversity of commercially available high-CBD industrial hemp accessions**. Frontiers in Genetics 2021, **12**.
- 30. Hill NS, Levi M, Basinger N, Thompson A, Cabrera M, Wallace J, Saikawa E, Avramov A, Mullican J: White clover living mulch enhances soil health vs. Annual cover crops. Agronomy Journal 2021, 113:3697–3707.
- 31. Wang X, Chen S, Ma X, Yssel AEJ, Chaluvadi SR, Johnson MS, Gangashetty P, Hamidou F, Sanogo MD, Zwaenepoel A, et al.: Genome sequence and genetic diversity analysis of an under-domesticated orphan crop, white fonio (digitaria exilis). GigaScience 2021, 10.
- 32. Giangacomo C, Mohseni M, Kovar L, Wallace JG: Comparing DNA extraction and 16S rRNA gene amplification methods for plant-associated bacterial communities. *Phytobiomes Journal* 2021, 5:190–201.
- 33. Rogers AR, Dunne JC, Romay C, Bohn M, Buckler ES, Ciampitti IA, Edwards J, Ertl D, Flint-Garcia S, Gore MA, et al.: The importance of dominance and genotype-by-environment interactions on grain yield variation in a large-scale public cooperative maize experiment. G3 Genes | Genomes | Genetics 2021, 11.
- 34. Diepenbrock CH, Ilut DC, Magallanes-Lundback M, Kandianis CB, Lipka AE, Bradbury PJ, Holland JB, Hamilton JP, Wooldridge E, Vaillancourt B, et al.: Eleven biosynthetic genes explain the majority of natural variation in carotenoid levels in maize grain. The Plant Cell 2020, 33:882–900.
- 35. McFarland BA, AlKhalifah N, Bohn M, Bubert J, Buckler ES, Ciampitti I, Edwards J, Ertl D, Gage JL, Falcon CM, et al.: Maize genomes to fields (G2F): 2014–2017 field seasons: Genotype, phenotype, climatic, soil, and inbred ear image datasets. BMC Research Notes 2020, 13.

Assistant Professor (20)

- 1. Johnson M, Deshpande S, Vetriventhan M, Upadhyaya HD, Wallace JG: **Genome-wide population structure** analyses of three minor millets: Kodo millet, little millet, and proso millet. The Plant Genome 2019, **12**.
- 2. Harris-Shultz KR, Davis RF, Wallace J, Knoll JE, Wang H: A novel QTL for root-knot nematode resistance is identified from a south african sweet sorghum line. *Phytopathology** 2019, **109**:1011–1017.
- 3. Voghoei S, Hashemi Tonekaboni N, Wallace JG, Arabnia HR: **Deep learning at the edge**. 2018 international conference on computational science and computational intelligence (CSCI) 2018, doi:10.1109/csci46756.2018.00177.
- 4. Wallace JG, Rodgers-Melnick E, Buckler ES: **On the road to breeding 4.0: Unraveling the good, the bad, and the boring of crop quantitative genomics**. *Annual Review of Genetics* 2018, **52**:421–444.
- 5. Walters WA, Jin Z, Youngblut N, Wallace JG, Sutter J, Zhang W, González-Peña A, Peiffer J, Koren O, Shi Q, et al.: Large-scale replicated field study of maize rhizosphere identifies heritable microbes. Proceedings of the National Academy of Sciences 2018, **115**:7368–7373.
- Dawe RK, Lowry EG, Gent JI, Stitzer MC, Swentowsky KW, Higgins DM, Ross-Ibarra J, Wallace JG, Kanizay LB, Alabady M, et al.: A kinesin-14 motor activates neocentromeres to promote meiotic drive in maize. *Cell* 2018, 173:839–850.e18.
- 7. Pucher A, Hash CT, Wallace JG, Han S, Leiser WL, Haussmann BIG: Mapping a male-fertility restoration locus for the A4 cytoplasmic-genic male-sterility system in pearl millet using a genotyping-by-sequencing-based linkage map. BMC Plant Biology 2018, 18.
- 8. Chandnani R, Kim C, Guo H, Shehzad T, Wallace JG, He D, Zhang Z, Patel JD, Adhikari J, Khanal S, et al.: **Genetic analysis of gossypium fiber quality traits in reciprocal advanced backcross populations**. *The Plant Genome* 2018, 11
- 9. Wallace JG, Kremling KA, Kovar LL, Buckler ES: **Quantitative genetics of the maize leaf microbiome**. *Phytobiomes Journal* 2018, **2**:208–224.
- 10. Wallace JG, May G: **Endophytes: The other maize genome**. *The maize genome* 2018, doi:10.1007/978-3-319-97427-9_14.
- Diepenbrock CH, Kandianis CB, Lipka AE, Magallanes-Lundback M, Vaillancourt B, Góngora-Castillo E, Wallace JG, Cepela J, Mesberg A, Bradbury PJ, et al.: Novel loci underlie natural variation in vitamin e levels in maize grain. The Plant Cell 2017, 29:2374-2392.
- 12. Varshney RK, Shi C, Thudi M, Mariac C, Wallace J, Qi P, Zhang H, Zhao Y, Wang X, Rathore A, et al.: **Pearl millet genome sequence provides a resource to improve agronomic traits in arid environments**. *Nature Biotechnology* 2017, **35**:969–976.

- 13. Strable J, Wallace JG, Unger-Wallace E, Briggs S, Bradbury PJ, Buckler ES, Vollbrecht E: Maize YABBY genes drooping leaf1 and drooping leaf2 regulate plant architecture. The Plant Cell 2017, 29:1622–1641.
- 14. Wallace JG, Mitchell SE: **Genotyping-by-sequencing**. Current Protocols in Plant Biology 2017, 2:64–77.
- 15. McCaw ME, Wallace JG, Albert PS, Buckler ES, Birchler JA: Fast-flowering mini-maize: Seed to seed in 60 days. *Genetics* 2016, **204**:35–42.
- 16. Wallace JG, Zhang X, Beyene Y, Semagn K, Olsen M, Prasanna BM, Buckler ES: **Genome-wide association for plant** height and flowering time across 15 tropical maize populations under managed drought stress and well-watered conditions in sub-saharan africa. *Crop Science* 2016, 56:2365–2378.
- 17. Punnuri SM, Wallace JG, Knoll JE, Hyma KE, Mitchell SE, Buckler ES, Varshney RK, Singh BP: **Development of a high-density linkage map and tagging leaf spot resistance in pearl millet using genotyping-by-sequencing markers**. *The Plant Genome* 2016, **9**.
- 18. Upadhyaya HD, Vetriventhan M, Deshpande SP, Sivasubramani S, Wallace JG, Buckler ES, Hash CT, Ramu P: **Population genetics and structure of a global foxtail millet germplasm collection**. *The Plant Genome* 2015, **8**.
- 19. Zhang N, Gibon Y, Wallace JG, Lepak N, Li P, Dedow L, Chen C, So Y-S, Kremling K, Bradbury PJ, et al.: **Genome-wide** association of carbon and nitrogen metabolism in the maize nested association mapping population. *Plant Physiology* 2015, **168**:575–583.
- 20. Wallace JG, Upadhyaya HD, Vetriventhan M, Buckler ES, Tom Hash C, Ramu P: **The genetic makeup of a global barnyard millet germplasm collection**. *The Plant Genome* 2015, **8**.

Postdoc (2)

- 1. Wallace JG, Bradbury PJ, Zhang N, Gibon Y, Stitt M, Buckler ES: **Association mapping across numerous traits reveals patterns of functional variation in maize**. *PLoS Genetics* 2014, **10**:e1004845.
- 2. Wallace JG, Larsson SJ, Buckler ES: **Entering the second century of maize quantitative genetics**. *Heredity* 2013, **112**:30–38.

PhD (3)

- 1. Wallace JG, Zhou Z, Breaker RR: **OLE RNA protects extremophilic bacteria from alcohol toxicity**. *Nucleic Acids Research* 2012, **40**:6898–6907.
- 2. Wallace JG, Breaker RR: Improved genetic transformation methods for the model alkaliphile bacillus halodurans c-125: Bacillus halodurans transformation. Letters in Applied Microbiology 2011, 52:430-432.
- 3. Block KF, Puerta-Fernandez E, Wallace JG, Breaker RR: **Association of OLE RNA with bacterial membranes via an RNA-protein interaction**. *Molecular Microbiology* 2010, **79**:21–34.

Meetings attended

* = speaker, † = poster, § = international scope

Associate Professor (38)

2024 (7)

- § Phytobiomes 2024; St. Louis, Missouri (November 2024)
 UGA Plant Center Retreat; Pine Mountain, Georgia (November 2024)
- * § DragonCon 2024; Atlanta, Georgia (August 2024)
 - UGA Institute of Plant Breeding, Genetics, and Genomics Retreat; Hiawasee, Georgia (May 2024)
- * Al In Plant Breeding Symposium; Athens, Georgia (April 2024)
- * § 66th Annual Maize Genetics Conference; Raleigh, North Carolina (March 2024)
- * § Plant & Animal Genome 31; San Diego, California (January 2024)

2023 (7)

UGA Plant Center Retreat; Young Harris, Georgia (December 2023)

- † 26th Annual Plant Genome Research Program Awardee Meeting; Washington, D.C. (September 2023)
- * § DragonCon 2023; Atlanta, Georgia (August 2023)
- † Plant Biology 2023 (American Society of Plant Biologists); Savannah, Georgia (August 2023) UGA Institute of Plant Breeding, Genetics, and Genomics Retreat; Columbus, Georgia (May 2023)
- § 65th Annual Maize Genetics Conference; St. Louis, Missouri (March 2023)
- § Plant & Animal Genome 30; San Diego, California (January 2023)

2022 (9)

UGA Plant Center Retreat; Young Harris, Georgia (December 2022)
Georgia Plant Conservation Alliance Annual Meeting; Brunswick, Georgia (November 2022)

§ Phytobiomes; Denver, Colorado (September 2022)

- † 25th Annual Plant Genome Research Program Awardee Meeting; Washington, D.C. (September 2022)
- * § **DragonCon 2022**; Atlanta, Georgia (September 2022)
- †§ 18th International Symposium on Microbial Ecology; Lausanne, Switzerland (August 2022)
 UGA Institute of Plant Breeding, Genetics, and Genomics Retreat; Jekyll Island, Georgia (May 2022)
- § 64th Annual Maize Genetics Conference; St. Louis, Missouri (March 2022)
- * § Plant & Animal Genome XXIX; Virtual (January 2022)

2021 (8)

UGA Plant Center Retreat; Brasstown Bald, Georgia (December 2021)

† Plant Genome Research Program 24th Annual Awardee Meeting; Virtual (September 2021)

American Society of Plant Biologists Annual meeting; Virtual (July 2021)

UGA Institute of Plant Breeding, Genetics, and Genomics Retreat; Virtual (May 2021)

Transdisciplinary Research in Plant Sciences and Engineering: from Precision Agriculture to Synthetic Biology; Virtual (May 2021)

Microbiome for Agriculture Congress; Virtual (March 2021)

- †§ 63rd Annual Maize Genetics Conference; Virtual (March 2021)
- * Microbiome Movement AgBiotech; Virtual (February 2021)

2020 (7)

Plant Genome Research Program 23rd Annual Awardee Meeting; Virtual (September 2020)

- National Association of Plant Breeders Annual Meeting; Virtual (August 2020)
- § 62nd Annual Maize Genetics Conference; Virtual (June 2020)

Collective Behavior (UGA Institute of Bioinformatics Symposium); Athens, Georgia (March 2020)

- * Illinois' Corn Breeders' School; Champaign, Illinois (March 2020)
 - Plants by Design; Athens, Georgia (February 2020)
- * FFAR Foster Our Future; Washington, D.C. (February 2020)

Assistant Professor (31)

2019 (5)

- * § ASA-CSSA-SSSA Annual Meeting; Tampa, Florida (November 2019)
 - † Plant Genome Research Program 22nd Annual Awardee Meeting; Arlington, Virginia (September 2019) National Association of Plant Breeders Annual Meeting; Pine Mountain, Georgia (August 2019)
- †§ 61st Annual Maize Genetics Conference; St. Louis, Missouri (March 2019)
- * § Plant & Animal Genome XXVII; San Diego, California (January 2019)

2018 (6)

UGA Plant Center Retreat; Helen, Georgia (September 2018)

- † Plant Genome Research Program 21st Annual Awardee Meeting; Arlington, Virginia (September 2018)
- * § China Agricultural University and University of Georgia Joint Research Project Symposium; Beijing, China (July 2018)
- † Wild and Tame Phytobiomes; University Park, Pennsylvania (June 2018)
- * § 60th Annual Maize Genetics Conference; Saint Malo, France (March 2018)

NIFA FACT Workshop – High-throughput, field-based phenotyping technologies for the Genomes to Fields (G2F) initiative; Ames, Iowa (January 2018)

2017 (9)

- * Corn Breeder's Research Conference; Chicago, Illinois (December 2017)
 - UGA Plant Center Retreat; Helen, Georgia (October 2017)
- * ASA-CSSA-SSSA Annual Meeting; Tampa, Florida (October 2017)
 - Parsing the Microbiome (UGA Institute of Bioinformatics Symposium); Athens, Georgia (September 2017)
- * Annual Meeting of the Mycological Society of America; Athens, Georgia (July 2017)
 UGA Institute of Plant Breeding, Genetics, and Genomics Retreat; Lake Blackshear, Georgia (May 2017)
 - Advancing Plant Sciences: Where is the research leading us?; Athens, Georgia (May 2017)
- †§ 59th Annual Maize Genetics Conference; St. Louis, Missouri (March 2017)
- * § Plant & Animal Genome XXV; San Diego, California (January 2017)

2016 (8)

†§ Phytobiomes: From Microbes to Plant Ecosystems; Santa Fe, New Mexico (November 2016)

- **UGA Plant Center Retreat**; Helen, Georgia (October 2016)
- * § 7th International Crops Science Congress; Beijing, China (August 2016)
- * UGA Institute of Plant Breeding, Genetics, and Genomics Retreat; Athens, Georgia (May 2016)

 Joe L. Key Symposium; Athens, Georgia (May 2016)
- * § BMZ Heterosis meeting; Niamey, Niger (April 2016)
- * § **58th Annual Maize Genetics Conference**; Jacksonville, Florida (March 2016)
- *†§ Plant and Animal Genome XXIV; San Diego, California (January 2016)

2015 (3)

- * UGA Plant Center Retreat; Helen, Georgia (October 2015)
- * § Phytobiomes 2015; Washington, D.C. (July 2015)
- †§ 57th Annual Maize Genetics Conference; St. Charles, Illinois (March 2015)

Invited Presentations

§ = international scope

Associate Professor (18)

06 Nov 2024		Elusive Partnerships: Quantifying the Relationships between Maize, the Environment, and the Microbiome. Texas A&M Plant Pathology & Microbiology Departmental Seminar (College Station, Texas).
24 Apr 2024		Al in Plant Breeding - Panel Discussion. UGA Al in Plant Breeding Symposium (Athens, Georgia).
02 Mar 2024	§	Genetic & Environmental Impacts on the Maize Microbiome across the United States. 66th Annual Maize Genetics Conference (Raleigh, North Carolina).
23 Jan 2024		The Genomes to Fields Initiative. Georgia Corn Short Course (Tifton, Gerogia).
15 Jan 2024	§	Genetic, Environmental, and GxE Effects of the Maize Microbiome across the United States. Plant & Animal Genome 30 (San Diego, California).
04 Oct 2023		Productive Partnerships: Helping plants and microbes work better together . University of Wisconsin Plant Cellular & Molecular Biology seminar series (Madison, Wisconsin).
15 Jan 2022	§	A Large, Full Diallel of Tall Fescue for Dissecting Plant-Microbe Mutualism. Plant & Animal Genome XXIX (Virtual).
18 Nov 2021		Thanks for the Little Monsters: What We Owe Our Microbes. Athens Science Cafe (Athens, Georgia).
17 Sep 2021		Habitat or Mastermind? How maize shapes its microbiomes . University of Wisconsin Department of Plant Breeding & Plant Genetics seminar series (Madison, Wisconsin).
15 Jun 2021		What You'll Wish You'd Known in Grad School. UGA Institute of Bioinformatics Seminar Series (Athens, Georgia).
12 Apr 2021		The Twists and Turns of an Agricultural Research and Communication Career in Academia. NAPB Early Career Working Group Webinar (Virtual).
25 Mar 2021		Genotype-by-Genotype Interactions between Corn and Microbes . Genetics of Maize-Microbe Interactions seminar series (Virtual).
17 Mar 2021		Habitat or Mastermind? The role of plant genetics in shaping microbiomes. UGA Department of Animal & Dairy Science Seminar Series (Athens, Georgia).
22 Feb 2021		Investigating genotype-by-genotype interactions between corn and microbes . Microbiome Movement AgBiotech (Virtual).
23 Oct 2020		Understanding Genotype-by-Genotype Interactions between Crops and Microbes. University of Illinois at Urbana-Champaign Departmental Seminar Series (Virtual [Urbana-Champaign, Illinois]).
19 Aug 2020		Understanding Genotype-by-Genotype Interactions between Corn and Microbes . National Association of Plant Breeders Annual Meeting (Virtual).
02 Mar 2020		Genotype-by-Genotype Interactions between Corn and Microbes. Illinois' Corn Breeders' School (Champaign, Illinois).
05 Feb 2020		Harnessing Endophytes to Improve Agriculture. FFAR Foster Our Future (Washington, D.C.).
Assistant Profe		(20)

Assistant Professor (29)

11 Nov 2019		Unraveling the Mechanisms of Microbe-Induced Abiotic Stress tolerance in Plants. Crop Science Society of America annual meeting (San Antonio, Texas).
22 Jul 2019		Harnessing Microbes to Improve Agriculture. Noble Research Institute seminar (Ardmore, Okla-
		homa).
13 Apr 2019		The Effect of Host Genetics on the Maize Leaf Microbiome. UGA Microbiome Seminar Series (Athens,
		Georgia).
16 Jan 2019	§	Genomics of Crop-Microbiome interactions. Plant & Animal Genome XXVII (San Diego, California).
06 Nov 2018	§	La Microbiome del Maíz. UNITEC Universidad Tecnológica de México - Campus León Seminar Series
		(Guanajuato, Mexico (via webinar)).

12 Oct 2018		Harnessing Plant Microbiomes for Agriculture. University of Kentucky Department of Plant & Soil Sciences Seminar Series (Lexington, Kentucky).
23 Jul 2018	§	Quantitative Genetics of the Maize Microbiome. Chinese Agriculture University - University of
22 Mar 2018	§	Georgia collaboration conference (Beijing, China). The Maize Microbiome . MaizeGDB workshop in conjunction with the 60th Annual Maize Genetics
19 Feb 2018		Conference (Saint Malo, France). Quantitative genetics of the maize microbiome . UGA Plant Pathology Seminar Series (Athens,
		Georgia).
04 Dec 2017		The Maize Microbiome as a Target for Breeding and Management . Annual Corn Breeder's Research Meeting (Chicago, Illinois).
23 Oct 2017		The effect of host genetics on maize-microbiome interaction. ASA-CSSA-SSSA Annual Meeting (Tampa, Florida).
18 Jul 2017		Harnessing Fungi to Improve Agriculture. Mycological Society of America (Athens, Georgia).
09 Mar 2017		Unraveling the Genetics of Maize-Microbiome Interactions . NewLeaf Symbiotics invited presentation (Saint Louis, Missouri).
14 Jan 2017	§	
		microbial communities. Plant & Animal Genome XXV (San Diego, California).
21 Sep 2016		Leveraging Genomics to Improve Staple Crops. UGA Genetics Seminar Series (Athens, Georgia).
24 Aug 2016		The Effect of Host Genetics on the Maize Leaf Microbiome . UGA Plant Functional Genomics Seminar (Athens, Georgia).
16 Aug 2016	§	,
		Crop Science Congress (Beijing, China).
20 May 2016		Leveraging Genomics to Improve Staple Crops . UGA Institute of Plant Breeding, Genetics, and Genomics Annual Retreat (Athens, Georgia).
26 Apr 2016	§	Genotyping by Sequencing (GBS) Method Overview . West African Center for Crop Improvement seminar series (Accra, Ghana).
25 Apr 2016	§	Leveraging Genomics to Improve Staple Crops . West African Center for Crop Improvement seminar series (Accra, Ghana).
22 Apr 2016	§	
		(Niamey, Niger).
22 Apr 2016	§	TASSEL/GBS Practical Examples. BMZ Heterosis Project Meeting & Training (Niamey, Niger).
20 Mar 2016	§	The effect of host genetics on the maize leaf microbiome across 270 diverse inbred lines. 58th
		Annual Maize Genetics Conference (Jacksonville, Florida).
13 Jan 2016	§	Analyzing the Leaf Microbiome across 270 Diverse Maize Lines . Plant & Animal Genome XXIV (San Diego, California).
30 Oct 2015		Leveraging Genomics to Improve Staple Crops. UGA Plant Center Retreat (Helen, Georgia).
02 Oct 2015		Leveraging Genomics to Improve Staple Crops . UGA Institute of Bioinformatics Seminar Series (Athens, Georgia).
30 Jun 2015	§	Analyzing the Leaf Microbiome across 270 Diverse Maize Lines. Phytobiomes 2015 (Washington, D.C.).
19 Feb 2015	§	
13 Feb 2015	§	

Posters & Abstracts

Associate Professor (48)

10 Jan 2025	*Correa dos Santos, R., Wallace, J. CoNekT Grasses Microbiome enables the network analysis for mi-
	crobial co-occurence and integration of host RNAseq and microbiome data. Plant & Animal Genome 32
	(San Diego, California).
10 Jan 2025	*Talamantes, D., and Wallace, J. Mapping Tall Fescue genetics to endophyte toxin and biomass produc-
	tion. Plant & Animal Genome 32 (San Diego, California).
10 Jan 2025	*Junior, R., Venado, R., Gibson, K., Laspisa, D., Phillips, C., Wallace, J., de Leon, N., Ane, J-M. Maize breed-
	ing for biological nitrogen fixation on aerial roots. Plant & Animal Genome 32 (San Diego, California).
11 Nov 2024	*Harris-Schultz, K., Sapkota, S., Wallace, J., Schwartz, B., Coffin, A., and Zhang, J. Candidate Genes for

- Stigma Color Were Identified in a Centipedegrass Population Using a Genome-Wide Association Study.

 ASA, CSSA, SSSA International Annual Meeting (San Antonio, Texas).
- 31 Oct 2024 Laspisa, D., Gibson, K., Venado, R., Wilker, J., Infante, V., Calderon, C., Ane, J-M., and Wallace, J. **Genetic Determinants of Aerial Root Formation in Maize: Prospects for Harnessing Biological Nitrogen Fixation**. UGA Plant Center Retreat 2024 (Pine Mountain, Georgia).

- 31 Oct 2024 Correa dos Santos, R., Wallace, J. **Correlation analysis of paired transcriptomic and metataxonomic datasets of leaves across diverse maize lines**. UGA Plant Center Retreat 2024 (Pine Mountain, Georgia).
- 31 Oct 2024 Talamantes, D., and Wallace, J. **Tall Fescue Genetics Changes the Toxicity of Epichloë Endophytes**. UGA Plant Center Retreat 2024 (Pine Mountain, Georgia).
- 15 May 2024 Correa dos Santos, R., Wallace, J. **Correlation analysis of paired transcriptomic and metataxonomic datasets of leaves across diverse maize lines**. UGA Institute of Plant Breeding, Genetics & Genomics annual retreat (Hiawasee, Georgia).
- 15 May 2024 Laspisa, D., Gibson, K., Venado, R., Wilker, J., Infante, V., Calderon, C., Ane, J-M., and Wallace, J. **Genetic Determinants of Aerial Root Formation in Maize: Prospects for Harnessing Biological Nitrogen Fixation**. UGA Institute of Plant Breeding, Genetics & Genomics annual retreat (Hiawasee, Georgia).
- *Laspisa, D., Gibson, K., Venado, R., Wilker, J., Infante, V., Calderon, C., Ane, J-M., and Wallace, J. **Genetic Determinants of Aerial Root Formation in Maize: Prospects for Harnessing Biological Nitrogen Fixation**. 66th Annual Maize Genetics Conference (Raleigh, North Carolina).
- 17 Jan 2024 *Laspisa, D., Gibson, K., Venado, R., Wilker, J., Infante, V., Calderon, C., Ane, J-M., and Wallace, J. **Genetic Determinants of Aerial Root Formation in Maize: Prospects for Harnessing Biological Nitrogen Fixation (talk).** Plant & Animal Genome 31 (San Diego, California).
- *Venado, R., Gibson, K., Wilker, J., Wolf, E., Vela, S., Pankievicz, V., Laspissa, D., Infante, V., Calderon, C., Robbins, F., Fernandez-Junior, P., Wallace, J., Vermerris, W., Ane, J-M. **Biological Nitrogen Fixation on the Aerial Roots of Maize and Sorghum for Sustainable Agriculture (talk)**. Plant & Animal Genome 31 (San Diego, California).
- *Venado, R., Gibson, K., Wilker, J., Wolf, E., Vela, S., Pankievicz, V., Laspissa, D., Infante, V., Calderon, C., Robbins, F., Fernandez-Junior, P., Wallace, J., Vermerris, W., Ane, J-M. **Biological Nitrogen Fixation on the Aerial Roots of Maize and Sorghum for Sustainable Agriculture (poster)**. Plant & Animal Genome 31 (San Diego, California).
- *Talamantes, D., and Wallace, J. **Tall Fescue Genetics Changes the Toxicity of Epichloë Endophytes**. Plant & Animal Genome 31 (San Diego, California).
- 13 Dec 2023 Corut, K., & Wallace, J. G. kGWASflow: A Modular, Flexible and Reproducible Snakemake Pipeline for k-Mers Based GWAS. UGA Plant Center Retreat 2023 (Young Harris, Georgia).
- 13 Dec 2023 Bozic, M, Ignjatovic Micic, D., Nikolic, A., and Wallace, J. **Genes involved in cold response in early developmental stages of maize**. UGA Plant Center Retreat 2023 (Young Harris, Georgia).
- 13 Dec 2023 Talamantes, D., and Wallace, J. G. **Tall Fescue Genetics Changes the Toxicity of Epichloë Endophytes**. UGA Plant Center Retreat 2023 (Young Harris, Georgia).
- 13 Dec 2023 Laspisa, D., Gibson, K., Venado, R., Wilker, J., Infante, V., Calderon, C., Ane, J-M., and Wallace, J. **Genetic Determinants of Aerial Root Formation in Maize: Prospects for Harnessing Biological Nitrogen Fixation**. UGA Plant Center Retreat 2023 (Young Harris, Georgia).
- 29 Oct 2023 *Knoll, J. E., Cuevas, H. E., Shultz, C. R., & Wallace, J. G. **Development and validation of markers for anthracnose resistance in sorghum**. 2023 ASA-CSSA-SSSA International Annual Meeting (Saint Louis, Missouri).
- 07 Sep 2023 Wallace, J. G., & Schardl, C., **ECA-PGR: Identifying Host Factors that Influence the Association of Tall Fescue (Festuca arundinacea) with Beneficial Epichloë Endophytes**. Plant Genome Research Program 26th Annual Awardee Meeting (Washington, D.C.).
- *Venado, R., Pyne, S., Wilker, J., Pankievicz, V., Fernandes, P., Robbins, F., Wolf, E., Vela, S., Laspisa, D., Pereira, W., Dervinis, C., Wallace, J., Vermerris, W., Kirst, M., Roy, S., and Ane, J-M. **Biological Nitrogen Fixation on the Aerial Roots of Maize and Sorghum for Sustainable Agriculture**. 15th European Nitrogen Fixation Conference (Naples, Italy).
- *Corut, K., & Wallace, J. G. kGWASflow: A Modular, Flexible and Reproducible Snakemake Pipeline for k-Mers Based GWAS. Plant Biology 2023: ASPB 2023 Worldwide Summit (Savannah, Georgia).
- *Punnuri, S. M., Boatwright, L., Coffin, A., Tadesse, H., Knoll, J., Harris, K., and Wallace, J. Identification of sorghum aphid resistance loci and other related traits using cornerstone genomic resources. Global Sorghum Conference (Montpelliere, France).
- *Laspisa, D., Phillips, C., Griffis, H., and Wallace, J. **Mapping maize brace root traits associated with nitrogen-fixing bacterial symbiosis**. 65th Annual Maize Genetics Conference (Saint Louis, Missouri).
- *Wilker, J. L., Infante, V., McLimans, C. E., Murray, A., Robbins, F. A., Calderon, C. I., Wallace, J. G., & Ané, J-M. Aerial Root Formation Persists into the Adult Phase and Is Nitrogen-Level Dependent in Sierra Mixe Corn Landraces. Plant & Animal Genome 30 (San Diego, California).
- *Corut, K., & Wallace, J. G. kGWASflow: A Modular, Flexible and Reproducible Snakemake Pipeline for k-Mers Based GWAS. Plant & Animal Genome 30 (San Diego, California).
- 12 Dec 2022 Talamantes, D., & Wallace, J. G. **Tall Fescue Genetics Affecting Epichloe Phenotypes**. UGA Plant Center Retreat (Brasstown Bald, Georgia).

- 12 Dec 2022 Kirkpatrick, C., & Wallace, J. G. **Vertical transmission of seed-borne endophytes over multiple generations in maize**. UGA Plant Center Retreat (Brasstown Bald, Georgia).
- *Xie, L., Burridge, J., Kengana, J., Wallace, J. G., Hanlon, M., Lynch, J., Bucksch, A. Pheotypic Spectrum: a novel framework to study the root architecture diversity of crop roots at the population level. 2022 ASA-CSSA-SSSA International Annual Meeting (Baltimore, Maryland).
- O9 Sep 2022 Talamantes, D., Corut, K., Nagabhyru, P., Schardl, C., & Wallace, J. G **We are using Tall Fescue to under-stand how plants work with beneficial microbes**. Plant Genome Research Program 23rd Annual Awardee Meeting (Washington, D.C.).
- 14 Aug 2022 *Li, Hanxia, & Wallace, J. G. Gene-by-environment Interaction is the Largest Effect on Maize Endophyte Variability. International Society for Microbial Ecology (Lausanne, Switzerland).
- Punnuri, S., Ayele, A., Harris-Schultz, K., Knoll, J., Coffin, A., Tadesse, H., Li, H., & Wallace, J. G. **Assessing sugarcane aphid resistance in sorghum in relation to plant maturity and morphology**. Georgia Entomological Society (Jekyll Island, Georgia).
- O4 Apr 2022 Ayele, A., Punnuri, S., Wiggins, T., Harris-Schultz, K., Knoll, J., Coffin, A., Tadesse, H., Armstrong, S., Li, H., Sattler, S., & Wallace, J. G. Genome-Wide Association Study detected potential markers and genes associated with sugarcane aphid resistance in sorghum bicolor.. USDA ARD Research Symposium 2022 (Atlanta, Georgia).
- *Punnuri, S., Ayele, A., Harris-Schultz, K., Knoll, J., Coffin, A., Tadesse, H., Armstrong, S., Wiggins, T., Li, H., Sattler, S., & Wallace, J. G. **GWAS Analysis for Understanding Sugarcane Aphid Resistance in Sorghum**. Plant & Animal Genome XXIX (Virtual).
- *Corut, K., & Wallace, J. G. kGWASflow: A Snakemake Pipeline for k-Mers-Based GWAS and Its Application to Maize Leaf Microbiome Traits. Plant & Animal Genome XXIX (Virtual).
- 11 Jan 2022 *Li, Hanxia, & Wallace, J. G. Living Mulch Fosters a More Diverse and Balanced Bacterial Community in Corn Production. Plant & Animal Genome XXIX (Virtual).
- *Schultz, C. & Wallace, J. G. **Maize Genetic Diversity and Microbial Interactions**. Plant & Animal Genome XXIX (Virtual).
- o2 Jan 2022 *Li, Hanxia, & Wallace, J. G. The effect of maize genotypes, environments, and GxE interactions on maize endophytes. 64th Annual Maize Genetics Conference (Saint Louis, Missouri).
- *Schultz, C. & Wallace, J. G. **Maize genetic diversity and microbial interactions**. 64th Annual Maize Genetics Conference (Saint Louis, Missouri).
- *Wilker, J. L., Wallace, J. G., de Leon, N., Calderon, C., Ane, J-M. **Genetic control of maize aerial node root number and diameter**. 64th Annual Maize Genetics Conference (Saint Louis, Missouri).
- 10 Nov 2021 Punnuri, S., Ayele, A., Harris-Schultz, K., Knoll, J., Coffin, A., Tadesse, H., Armstrong, S., Li, H., & Wallace, J. G. Understanding Genetic Diversity and Genome- Wide Association Mapping of Resistance to Sugarcane Aphid in Sorghum Bicolor. 2021 ASA-CSSA-SSSA International Annual Meeting (Salt Lake City, Utah).
- *Ane, J-M., Khokhani, D., Maeda, J., Mus, F., Infante, V., Calderon, C., Wallace, J. G., Vermerris, W., Voigt, C., Peters, J., Pankievicz, V. C. S. **Associative nitrogen-fixation for cereal crops: old challenges and new opportunities**. 14th European Nitrogen Fixation Conference (Virtual).
- 21 Jul 2021 Diepenbrock, C., Ilut, D., Magallanes-Lundback, M., et. al. **Genetic basis of natural variation for carotenoid and tocochromanol levels in maize grain**. Plant Biology 2021: ASPB 2021 Worldwide Summit (Virtual).
- 07 Jun 2021 Park, J., Kovar, L., LaFayette, P., Parrot, W., & Wallace, J. G. **Bladderwort Insulator Elements for Crop Biotechnology**. In Vitro Biology Meeting 2021 (Virtual).
- 03 Mar 2021 Schultz, C., Brantley, K., & Wallace, J. G. Quantifying Maize Genotype by Endophyte Interaction. Microbiome for Agriculture Congress 2021 (Virtual).
- 12 Aug 2020 Flanagan, A., Lawrence, K., Wallace, J. G., Talbott, C., Poore, M., Hardin, F., & Young, C. A. **Empowering a strong STEM and agricultural workforce: Exploring the inconspicuous symbiotic relationship of fungal endophytes in grasses**. Plant Health 2020 (Virtual).
- *Wallace, J. G. Livia: Teaching Evolution with Images. Plant & Animal Genome XXVIII (San Diego, California).
- *Kovar, L., Johnson, M. S., Griffis, H. K., & Wallace, J. G. A survey of the maize-associated microbiota in georgia. 62nd Annual Maize Genetics Conference (Saint Louis, Missouri).

Assistant Professor (14)

- 05 Sep 2019 Wallace, J. G. and Young, C. A. **We are using Tall Fescue to understand how plants work with beneficial microbes**. Plant Genome Research Program 22nd Annual Awardee Meeting (Washington, D.C.).
- O5 Sep 2019 Parrott, W. A. and Wallace, J. G. The small Bladderwort genome is a promising source of regulatory elements for genetic engineering. Plant Genome Research Program 22nd Annual Awardee Meeting (Washington, D.C.).

13 May 2019	Johnson, M., Coolong, T., & Wallace, J. G. Bringing Hemp to Georgia: A project to Develop Hemp Vari-
	eties for Georgia. UGA Institute of Plant Breeding, Genetics & Genomics annual retreat (Amicalola Falls,
	Georgia).
26 Sep 2018	Kovar, L., & Wallace, J. G. Leaf microbiome community structure, co-abundance analysis, and correla-
	tion with phenotype across 270 diverse maize lines. UGA Plant Center Retreat (Helen, Georgia).

- 06 Sep 2018 Wallace, J. G. and Young, C. A. **ECA-PGR: Identifying Host Factors that Influence the Association of Tall Fescue (Festuca arundinacea) with beneficial Epichloë endophytes**. Plant Genome Research Program 21st Annual Awardee Meeting (Washington, D.C.).
- 06 Sep 2018 Parrott, W. A. and Wallace, J. G. **TRANSFORM-PGR: Mining the compact Utricularia genome as source of novel regulatory elements for crop biotechnology**. Plant Genome Research Program 21st Annual Awardee Meeting (Washington, D.C.).
- 20 Jun 2018 Wallace, J. G., Kremling, K. A., Chen, S. Y., Su, M. H., Pardo, J., Lepak, N. K., Budka, J. S., Buckler, E. S. The Effect of Host and Environment on the Maize microbiome. 21st Annual Penn State Plant Biology Symposium: Wild and Tame Phytobiomes (State College, Pennsylvania).
- 10 May 2018 Kovar, L., & Wallace, J. G. **Untangling bacterial interactions in the maize leaf microbiome A co-abundance network approach**. UGA Institute of Plant Breeding, Genetics & Genomics annual retreat (Pine Mountain, Georgia).
- *Wallace, J. G., Kremling, K. A., Chen, S. Y., Su, M. H., Pardo, J., Lepak, N. K., Budka, J. S., Buckler, E. S. **The Effect of Host and Environment on the Maize microbiome**. 60th Annual Maize Genetics Conference (Saint-Malo, France).
- 26 Oct 2017 Johnson, M., Rodriguez, D., Upadhyaya, H., Wallace, J.G. First Population Genetic Analysis of Three Minor Millets. UGA Plant Center Retreat (Helen, Georgia).
- *Wallace, J. G., Kremling, K. A., Chen, S. Y., Su, M. H., Pardo, J., Lepak, N. K., Budka, J. S., Buckler, E. S. Quantitative Analysis of the Maize Leaf Microbiome. 59th Annual Maize Genetics Conference (St. Louis, Missouri).
- *Wallace, J. G., Kremling, K. A., Chen, S. Y., Su, M. H., Pardo, J., Lepak, N. K., Budka, J. S., Buckler, E. S. Analyzing the Leaf Microbiome across 270 Diverse Maize Lines. Plant and Animal Genome XXIV (San Diego, California).
- *Wallace, J. G., Kremling, K. A., Chen, S. Y., Su, M. H., Pardo, J., Lepak, N. K., Budka, J. S., Buckler, E. S. **The Effect of Host Genetics on the Maize Leaf Microbiome across 270 Diverse Inbred Lines**. Phytobiomes: From Microbes to Plant Ecosystems (Santa Fe, New Mexico).
- *Wallace, J. G., Beyene, Y., Semagn, K., Zhang, X., & Buckler, E. S. Combined mapping of height and flowering time across 15 biparental populations using both traditional and Bayesian association mapping. 57th Annual Maize Genetics Conference (St. Charles, Illinois).

Other Creative Contributions

01 Jan 2025	Wallace, J.G. & Kvitko, B.H. Gaming with Science Podcast (ongoing; 12 episodes as of Jan 2025)	Podcast
27 Aug 2024	Hein, Treena Crops that Fertilize Themselves	Magazine Article
13 Aug 2020	Wallace, J.G., Gimode, D., and Wright, H. Introduction to R Webinar Videos (1-6)	Video
11 Jun 2019	Li, H., Van Katwyk, R., and Wallace, J. G. Genomes to Fields Endophyte Sampling	Video
	Protocol.	
19 Dec 2018	Melancon, M., Goldberg, S., and Wallace, J. G. UGA professor receives 2018 New Innovator Award .	Press release
03 Dec 2018	Melancon, M. and Wallace, J. G. University of Georgia researchers look to increase the pace of sustainable crop innovation with the help of the lowly bladderwort.	Press release
15 Nov 2018	Melancon, M. and Wallace, J. G. UGA College of Agricultural and Environmental Sciences researchers secure over \$1 million to understand how microbes help grass thrive.	Press release
30 Dec 2017	Wallace, J.G. Microbiome Research Community at UGA.	Website
22 Sep 2017	Melancon, M. and Wallace, J. G. Live from the Lab: The Pearl Millet Genome.	Interview (Livestream)
19 Sep 2017	Melancon, M. Code breakers unlock pearl millet's heat tolerance to fight climate chaos.	Press release
10 Apr 2015	Brown, David O. Corn Genetics	Interview (video)

Research Grants

Pending

Co-PI \$9,000,000 N2Cereals: Delivering Nitrogen to Cereal Crops through Biological Nitrogen Fixation for Sustainable Bioenergy Production (DOE ARPA-E; \$1,000,000 to Wallace). Mar 2025-Feb 2029.

Co-PI	\$649,915	Breeding Turf-Type Tall Fescue To Address Future Challenges Associated With Global Warming And Climate Change (USDA-AFRI; \$50,228 to Wallace). Sep 2025-Aug 2029.
PI	\$847,582	SeedCom: A synthetic community to understand bacterial endophytes of maize seeds (USDA-AFRI; \$425,000 to Wallace). Apr 2025-Mar 2028.
Co-PI		Recovery of Evolutionary Lineages from Ice Cores (RELIC) (DOE JGI Community Sequencing Project). Jan 2025-Jun 2026.
Funded		
Associate	e Professor	
PI	\$39,000	Continuing Support for Georgia Locations in the Genomes to Fields (G2F) Initiative in 2025

PI	\$39,000	Continuing Support for Georgia Locations in the Genomes to Fields (G2F) Initiative in 2025
		(Georgia Corn Commission; \$34,500 to Wallace). Mar 2025-Dec 2025.
PΙ	\$35,000	Continuing Support for Georgia Locations in the Genomes to Fields (G2F) Initiative in 2024
		(Georgia Corn Commission; \$31,500 to Wallace). Mar 2024-Dec 2024.
Co-PI	\$850,000	Introgression of Efficient Aerial Root nitrogen-fixation from tropical maize landraces into selected
		elite materials (USDA-AFRI; \$199,842 to Wallace). May 2024-Apr 2027.
PI	\$35,000	Continuing Support for Georgia Locations in the Genomes to Fields (G2F) Initiative in 2023
		(Georgia Corn Commission; \$30,000 to Wallace). Jan 2023-Dec 2023.
PI	\$34,535	Continuing Support for Georgia Locations in the Genomes to Fields (G2F) Initiative in 2022
		(Georgia Corn Commission; \$34,535 to Wallace). Jan 2022-Dec 2022.
PI	\$14,813	Hitchhiking on Inheritance: Finding the Microbes that make Seeds their Homes (UGA Faculty Seed
		Grants; \$14,813 to Wallace). Jul 2021-Jun 2022.
PI	\$32,881	Continuing Support for Georgia Locations in the Genomes to Fields (G2F) Initiative in 2021
		(Georgia Corn Commission; \$32,881 to Wallace). Jan 2021-Dec 2021.
PI	\$67,500	
ΡI	\$31,068	
		(Georgia Corn Commission; \$31,068 to Wallace). Jan 2020-Dec 2020.
Co-PI	\$1,068,999	
	. , -,	Jan 2021-Dec 2024.

Assistant Professor

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PI	\$44,475	
		Research Program; \$44,475 to Wallace). Jul 2019-Dec 2019.
Co-PI	\$32,750	Request for Initiating Breeding of Industrial Hemp for Georgia (Georgia Seed Development
		Program; \$9,000 to Wallace). May 2019-Dec 2019.
PI	\$25,530	Evaluating the Natural Corn Microbiome in Georgia (Georgia Corn Commission; \$25,530 to Wal-
		lace). Mar 2018-Dec 2018.
PI	\$29,946	Continuing Support for Georgia Locations in the Genomes to Fields (G2F) Initiative in 2019
		(Georgia Corn Commission; \$29,946 to Wallace). Jan 2019-Dec 2019.
Co-PI	\$499,997	Developing high-throughput phenotyping capacity at Fort Valley State University for genetic
		enhancement of sugarcane aphid resistance in sorghum (USDA-NIFA; \$30,585 to Wallace). Feb
		2019-Feb 2023.
PI	\$584,461	Harnessing Endophytes to Improve Crop Efficiency and Production (FFAR; \$584,461 to Wallace).
		Jan 2019-Dec 2022.
Co-PI	\$1,054,463	Uncovering novel sources of anthracnose resistance in populations of genetically diverse
		sorghums [Sorghum bicolor (L.) Moench] (DOE; \$135,997 to Wallace). Oct 2018-Sep 2022.
PI	\$1,500	International Travel Funds to present at the 60th Annual Maize Genetics Conference (UGA Office
		of the Provost; \$1,500 to Wallace). Mar 2018-Jun 2018.
PI	\$2,000	International travel award to present at the 60th Annual Maize Genetics Conference (UGA CAES;
		\$2,000 to Wallace). Jan 2018-Jun 2018.
PI	\$26,014	Continuing Support for Georgia Locations in the Genomes to Fields (G2F) Initiative (Georgia Corn
		Commission; \$26,014 to Wallace). Mar 2018-Dec 2018.
Co-PI	\$4,800	Study on microbiome of soil and microorganisms in plants under implementing the biological

Chinese Agriculture University; \$4,800 to Wallace). Mar 2018-Sep 2018.

2017-Jun 2018. \$1,344,038 ECA-PGR: Identifying Host Factors that Modulate the Association of Tall Fescue (Festuca arundinacea) with an Obligate Fungal Endophyte (National Science Foundation; \$1,330,152 to Wallace). Apr 2018-Dec 2024.

\$6,252 Catalyzing new research partnerships in maize microbiomes (CRDF global; \$6,252 to Wallace). Dec

products functioned on tolerance to low temperature and enhance in maize yield (UGA and

Co-PI	\$487,811	TRANSFORM-PGR Mining the compact Utricularia genome as source of novel regulatory elements for crop biotechnology (National Science Foundation; \$215,400 to Wallace). Mar 2018-Dec 2022.
Co-PI	\$39,356	BFP 2017 Asia & LA: CSA and GRA Bangladesh (USDA Foreign Ag Service; \$39,356 to Wallace). Jan 2018-Dec 2019.
Co-PI	\$498,181	Building soil health with living mulch cultivation (USDA-NIFA; \$38,588 to Wallace). Jan 2018-Dec 2021.
PI	\$15,000	Genomic Selection for Aflatoxin and Drought Resistance in Peanut (Georgia Peanut Commission; \$15,000 to Wallace). Apr 2017-Jun 2018.
PI	\$19,840	A Comparison of Corn Biological Seed Treatments for use in Georgia (Georgia Corn Commission; \$19,840 to Wallace). Jan 2017-Dec 2017.
PI	\$24,260	Support for Georgia Locations in the US-wide Genomes to Fields (G2F) initiative (Georgia Corn Commission; \$24,260 to Wallace). Jan 2017-Dec 2017.
PI	\$9,806	Genomic Comparison of Toxic and Non-toxic Endophytes of Tall Fescue (UGA OVPR; \$9,806 to Wallace). May 2016-Dec 2016.

Submitted but unfunded

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Associa	ite Professor	
PI	\$21,970	Isolating and Characterizing Native Rhizobia to Improve Peanut Production (National Peanut Board; \$21,970 to Wallace). Mar 2025-Dec 2025.
PI	\$24,480	Developing a Streamlined Genotyping Platform for Commercial Peanut Breeding (The Peanut Research Foundation; \$20,040 to Wallace). Mar 2025-Dec 2025.
PI	\$749,979	Impacts of Cover Crop Termination and Fertilizer Formulation on Soil Ecosystem Functions (USDA-AFRI; \$249,979 to Wallace). May 2025-Apr 2029.
PI	\$985,322	Improved industrial hemp production for chicken bedding in the Southeast United States. (USDA-AFRI; \$741,216 to Wallace). May 2025-Apr 2029.
Co-PI	\$1,178,254	Capsicum-HAPMAP: Mining sweet pepper (Capsicum annuum L.) genetic diversity for resistance to Phytopthora blight and anthracnose resistance. (USDA-NIFA; \$160,579 to Wallace). Jan 2025-Dec 2028.
PI	\$14,000	Screening of cultivated peanut and its wild relatives for differential nodulation capacity (Georgia Peanut Commission; \$14,000 to Wallace). May 2024-Dec 2024.
Co-PI	\$850,000	Harnessing Soil Microbes for Improving Crop Resiliency to Climatic Perturbations (USDA-AFRI; \$89,341 to Wallace). May 2024-Apr 2027.
PI	\$840,539	Creating predictive models for beneficial plant-microbe interactions in controlled environment agriculture (USDA-AFRI; \$529,289 to Wallace). May 2024-Apr 2027.
PI	\$23,978	Small-Scale Seed Treatment System for Corn Pre-Breeding (Georgia Cultivar Development; \$23,978 to Wallace). Jan 2024-Dec 2024.
PI	\$749,750	Impacts of Cover Crop Termination and Fertilizer Formulation on Soil Ecosystem Functions (USDA-AFRI; \$245,125 to Wallace). Jul 2024-Jun 2028.
PI	\$776,735	Hitchhiking on Inheritance: Understanding how Seed-Transmitted Bacteria Interact with their Host (NSF-BIO-PBI; \$453,948 to Wallace). Apr 2024-Mar 2027.
PI	\$14,577	Genetic Survey of the Endangered Plant, Fringed Campion (National Geographic; \$14,577 to Wallace). Jan 2024-Dec 2024.
PI		Long-read sequencing of the endagered Georgia flower, Fringed Campion (Silene catesbaei) (ORG.one (Oxford Nanopore)). May 2023-Dec 2023.
PI	\$13,979	Genomic Population Diversity of the Endangered Fringed Campion (Silene catesbaei) (Mohamed bin Zayed Species Conservation Fund; \$13,979 to Wallace). Jul 2023-Jun 2024.
PI	\$428,933	Mining Public Diversity Data for Plant-Microbe Interactions (NSF-BIO-PBI). Jun 2023-May 2026.
PI	\$849,185	The Hidden Half: A Soil Microbiome Approach To Understanding The Impact Of Living Mulch And Cover Crops On Greenhouse Gas Emissions And The Weed Seed Bank (USDA-AFRI; \$307,530 to Wallace). Apr 2023-Mar 2026.
PI		PacBio Better Future sequencing grant (Pacific Biosciences). Jan 2023-Dec 2023.
PI		West African Research Association Residency Fellowship (West African Research Association). Sep 2022-Jan 2023.
Co-PI	\$799,776	Plant breeding partnership: introgression of efficient aerial root nitrogen-fixation from tropical maize landraces to selected elite materials (USDA-AFRI; \$299,428 to Wallace). Jan 2022-Dec 2024.
Co-PI	\$999,990	An integrated approach to increase thermotolerance in sorghum and pearl millet (FFAR; \$158,460 to Wallace). Jun 2021-May 2025.
Co-PI	\$2,999,997	NRT-URoL: PlantSciFI: Cultivating Careers in the Plant Sciences and Fields that Intersect (National Science Foundation). Jan 2021-Dec 2025.

	ı	Pl	Co	o-PI	То	tals
	Total	Wallace Lab	Total	Wallace Lab	Total	Wallace Lab
Assistant Professor Associate Professor	. , ,	\$2,119,236 \$276,797	. , ,	. ,	\$4,750,480 \$2,208,796	\$2,592,962 \$934,297
Totals	\$2,422,919	\$2,396,033	\$4,536,357	\$1,131,226	\$6,959,276	\$3,527,259

Assistant Professor

Co-PI	\$3,970,338	RESEARCH-PGR: Bridging the gap between genomic clues and improved (cotton) plants (NSF;
		\$325,950 to Wallace). Apr 2020-Mar 2024.
PI	\$1,089,800	CAREER: Understanding Crop-Microbiome Interactions and Engaging with the Public through the Visual Arts (NSF-BIO-PBI; \$1,089,800 to Wallace). Jan 2020-Dec 2024.
Co-PI	\$378,038	Quantifying the Effect of Organic Poultry Litter and Local Effective Microorganisms on Plant
COTT	\$070,000	Production and Nutrient Content (USDA-NIFA; \$189,019 to Wallace). Jan 2019-Dec 2020.
6 DI	+0.470.040	
Co-PI	\$3,472,863	GEPR: Bridging the gap between genomics clues and improved (cotton) plants (NSF-PGRP;
		\$257,468 to Wallace). Jan 2019-Dec 2022.
PI		Genome sequencing of root endophytes that affect biomass accumulation and stress tolerance of
		bioenergy crops (DOE JGI). Jun 2018-Dec 2018.
Co-PI	\$314,662	Space-based seedling vigor indicators for improved cotton production sustainability on Earth
		(NASA; \$121,750 to Wallace). Apr 2018-Apr 2020.
ΡI	\$13,670	
	7 7 7	\$10,670 to Wallace). Mar 2018-Dec 2018.
PI	\$7,825	Understanding the Impact of Salt Stress on Maize and Its Interactions with Beneficial Microbes
		(UGA Global Research Collaborations; \$7,825 to Wallace). Jan 2018-Dec 2018.
PI	\$1,124,365	CAREER: Understanding the basis of maize-microbe interactions (NSF-BIO-PBI; \$1,124,365 to
	, , , , , , , , , , , , , , , , , , , ,	Wallace). Jul 2018-Jun 2023.
Co-PI	¢499 431	Defining the relative contributions of cold tolerance and avoidance mechanisms to seed and
CO 1 1	φ1//,101	seedling vigor under cold temperatures (USDA-NIFA; \$116,370 to Wallace). Jan 2018-Dec 2020.
PI	\$6,845	Analysis of the urban landscape microbiome surrounding the UGA Science Learning Center (UGA
PI	\$0,043	
	. = 0 0	CAES Seed Grants; \$6,845 to Wallace). Jul 2017-Jun 2018.
PI	\$524,118	
		2018-Dec 2020.
Co-PI	\$3,472,863	GEPR: Bridging the gap between genomics clues and improved (cotton) plants (NSF-PGRP;
		\$244,358 to Wallace). Jan 2018-Dec 2021.
Co-PI	\$299,992	Ecosystems Underfoot: Using undergraduate research on the urban microbiome to assess the
		impact of research participation on STEM recruitment and retention (NSF; \$25,000 to Wallace). Jul
		2017-Jun 2020.
PI	\$949,353	The Role of the Maize Microbiome on Biomass Production under Field Conditions (DOE; \$949,353
• •	ψ7 17,030	to Wallace). Jul 2016-Jul 2021.
Co-PI	\$61,442	Induction of Nitrogen stress tolerance in Maize using biological seed treatment products
CO-F1	φυ1, 44 Ζ	
		(USDA-NIFA; \$59,190 to Wallace). Jun 2016-Jan 2017.

Professional Development

06 Jan 2016	Tucson Plant Breeding Institute 2016.
	Workshop on applied plant breeding statistical analysis. (The University of Arizona, Tucson, Arizona)
31 Mar 2016	Why Flipping Flops: Perfecting the Practice.
	Training program in techniques for flipping classroom instruction. (University of Georgia, Athens)
04 Apr 2016	Flipping the Classroom: Perfecting the Practice.
	Training program in techniques for flipping classroom instruction. (University of Georgia, Athens)
29 Sep 2016	Mid-Semester Formative Evaluation (CRSS 8010).
	Evaluation and recommendations related to new course (CRSS 8010). (University of Georgia, Athens)
13 Sep 2018	Mid-Semester Formative Evaluation (CRSS 8010).
	Evaluation and recommendations related to second teaching of CRSS 8010. (University of Georgia,
	Athens)
26 Sep 2018	Faculty Learning Series: Project Management.
	Panel training in how to manage research labs and multiresearcher projects. (University of Georgia,
	Athens)

26 Sep 2018	Faculty Learning Series: Research Strategies 101.
40.5 0040	Panel training in design and implement research strategies. (University of Georgia, Athens)
12 Dec 2018	Faculty Learning Series: Taking Mentoring to the Next Level.
26 Feb 2019	Workshop training in how to better mentor graduate students. (University of Georgia, Athens) Leadership is not a Solo Act.
201002017	Workshop training in better leadership skills and dealing with different personality types among team
	members. (University of Georgia, Athens)
04 Mar 2019	Hogan Assessment.
	Three-part questionnaire followed by one-on-one counselling about personality traits and how they
	impact leadership style. (University of Georgia, Athens)
15 May 2022	Faculty Coaching (monthly).
	Regular meetings with UGA faculty coach to improve personal engagement and productivity. (University of Georgia, Athens)
01 Sep 2022	Faculty Learning Series: Ungrading.
	Focus on using "ungrading" style assessments to improve student engagement and learning. (University
	of Georgia, Athens)
01 Jan 2023	Faculty Coaching (monthly).
	Regular meetings with UGA faculty coach to improve personal engagement and productivity. (University
	of Georgia, Athens)
21 Feb 2023	Diversity through Dance.
24 4 2022	Diversity & inclusion training, using dance as a cultural lens. (University of Georgia, Athens)
21 Apr 2023	Diversity at UGA: Beyond the Numbers. Diversity & inclusion training introductory course. (University of Georgia, Athens)
05 Jul 2023	True Colors - Engaging Your Personality Style to Embrace Diversity.
03 Jul 2023	Diversity & inclusion training, with focus on differences among personality types. (University of Georgia,
	Athens)
26 Oct 2023	Emotional Intelligence and Diversity.
	Diversity & inclusion training, with focus on emotional intelligence. (University of Georgia, Athens)
01 Jan 2024	Faculty Coaching (monthly).
	Regular meetings with UGA faculty coach to improve personal engagement and productivity. (University
	of Georgia, Athens)
15 Mar 2024	Dawg Ally Training.
	Training session on LGBTQ+ allyship at UGA. (University of Georgia, Athens)

Academic Service

Service to the University

University Organizational Membership

2015	_	Present	Graduate Faculty
2015	-	Present	Institute of Bioinformatics
2015	-	Present	Institute of Plant Breeding, Genetics, and Genomics
2015	-	Present	The Plant Center
2015	_	2017	New Materials Institute

University Leadership & Administration

Dec 2022	-	Present	Member	Promotion & Tenure Committee for Leonardo Bastos , Crop & Soil Sciences
Jan 2022	-	Present	Chair	Committee on Diversity, Equity, and Inclusion, Institute of Bioinformatics
May 2018	-	Present	Faculty Mentor	Journal Club faculty mentor, Institute of Plant Breeding, Genetics, and
				Genomics
Apr 2017	-	Present	Coordinator	Microbiome Group, University of Georgia
Feb 2016	-	Present	Faculty Mentor	Athens Science Café, Athens Science Cafe
Dec 2022	-	Sep 2024	Faculty Mentor	Boerma Plant Breeding Lecture Series, Institute of Plant Breeding, Genet-
				ics, and Genomics
Aug 2019	-	Jan 2022	Chair	Outreach Committee, Institute of Bioinformatics
May 2017	-	Dec 2021	Member	Undergraduate Committee, The Plant Center
Jun 2017	-	Dec 2019	Member	Executive Committee, Integrated Plant Sciences
Sep 2018	-	Mar 2019	Member	Faculty Search committee, Institute of Bioinformatics
Sep 2016	-	Dec 2017	Member	Symposium Committee, Institute of Bioinformatics
Sep 2015	-	May 2016	Member	Curriculum Committee, Institute of Plant Breeding, Genetics, and Ge-
				nomics

Service to the Scientific Community

Editorships

Feb 2017 - May 2020 Associate Editor, The Crop Journal

Apr 2017 - Nov 2018 Review Editor, Frontiers in Microbiology and Plant Science

Dec 2016 - Nov 2017 Editorial Board, Maize Genetics Database

Invited External Review

Associate Professor

Grant Proposal (9) Department of Energy, Dutch Research Council, Foundation for Food and Agriculture Research (2),

National Science Foundation (3), UGA IPBGG, US Department of Energy

Manuscript (12) Agriculture, Applied and Environmental Microbiology, Crop Science, Frontiers in Bioengineering,

Frontiers in Microbiology, Microorganisms, Nature Microbiology, Phytobiomes, The Crop Journal,

Theoretical and Applied Genetics (2), Trends in Genetics

Thesis (1) University of Guelph

Assistant Professor

Grant Proposal (6) National Science Foundation (3), US Department of Agriculture (3)

Manuscript (21) Applied and Environmental Microbiology, BMC Plant Biology (2), Borlaug Leadership Enhancement

in Agriculture Program, CAB International, Crop Science, Genetics, Gigascience, Journal of Open Source Education, Molecular Ecology, New Phytologist (2), Phytobiomes (2), PloS Genetics (2), The

Crop Journal, The Plant Genome (3), Theoretical and Applied Genetics

Thesis (1) University of KwaZulu-Natal

Society memberships

American Association for the Advancement of Science (2015-Present)

American Society of Plant Biologists (2015-2016; 2022-2024)

International Society for Microbial Ecology (2015-2016; 2022-2023)

Maize Genetics Cooperation (2022-2024)

Other Service

Jun 2024	-	Present	Coordinator	Genetics of Maize-Microbiome Interaction Seminar Series , GMMI community
Jan 2024	-	Present	Member	Microbiomes Working Group, International Phytobiomes Alliance
Jan 2022	-	Present	Microbiome Lead	Coordinating Committee, International Phytobiomes Alliance
Jan 2024	-	Nov 2024	Organizing Committee	Phytobiomes 2024 Conference, International Phytobiomes Alliance
Jun 2024	-	Aug 2024	Mentor	Harvard Summer Research Institute, OpenBio / Harvard University
Jan 2024	-	Mar 2024	Co-Organizer	Genetics of Maize-Microbiome Interaction Workshop , Maize Genetics Meeting
Sep 2021	-	May 2023	Member	Athens Clarke County Agricultural Advisory Committee , Cedar Shoals High School
Jan 2023	-	Apr 2023	Faculty Mentor	MAGnet mentor, Maize Genetics Meeting

Public Outreach

02 Sep 2024	DragonCon 2024	(>3000	participants;	Atlanta,	Georgia)

Panelist for "Plants that want to kill you", "Convergent Evolution Run Amok", & "Dirt!", plus support for 11 other panels

01 May 2024 Skype-A-Scientist (20 participants; Virtual)

Zoom call with class of Brea Hodge involving students ages 8-10 about plants and growing vegetables

19 Apr 2024 Thinking Green: Botany, B-Movies, & Body-ody-doy (21 participants; Athens, Georgia) (link)

Panel discussion of different aspects of "Little Shop of Horrors". (Wallace covered carnivorous plants.)

11 Sep 2023 FFAR Fly-In Advocacy Event (30 participants; Washington, DC)

Talk with congressional staff about science funded by FFAR and impact it has made

03 Sep 2023 **DragonCon 2023** (500 participants; Atlanta, Georgia)

Panelist for "Fungus Among Us", "The Science of Dungeon & Dragon Monsters", & "What Scientific

Retraction Means", plus support for 4 other panels

21 Sep 2022 Presentation at Cedar Shoals High School (20 participants; Athens, Georgia)

Discuss crops and genetics with high school students in Environmental Science at Cedar Shoals High

School

04 Sep 2022 DragonCon 2022 (500 participants; Atlanta, Georgia)

Panelist for "Tending the Tree of Life", "COVID19 vs the Zombie Apocalypse", & "Sex is the Minority"

23 May 2022	Skype-A-Scientist (20 participants; Virtual)
	Zoom call with 3rd-grade Spanish immersion class, Liberty Bell Elementary School, Coopersberg, PA
20 Jan 2021	Youth Coding Night (10 participants; Athens, Georgia)
	Introduction to coding to church youth group (ages 11-18)
28 Mar 2019	Whit Davis Career Fair (300 participants; Athens, Georgia)
	Career fair for children in grades 3-5 at Whit Davis elementary
09 Mar 2018	Whit Davis Career Fair (300 participants; Athens, Georgia)
	Career fair for children in grades 3-5 at Whit Davis elementary
11 Dec 2017	Hilsman Middle School Science Fair (100 participants; Athens, Georgia)
	Served as volunteer judge for a middle school science fair at Hilsman Middle School
22 Sep 2017	Live from the Lab: The Pearl Millet Genome (Athens, Georgia) (link)
	Facebook Live stream explaining the significance of the pearl millet genome publication
19 May 2017	1st Grade Presentation: Genes and Food (50 participants; Athens, Georgia)
	Presentation to Whit Davis Elementary School 1st Grade
25 Apr 2017	Whit Davis Career Fair (330 participants; Athens, Georgia)
	Career fair for children in grades 3-5 at Whit Davis elementary
29 Jan 2016	Whit Davis Career Fair (300 participants; Athens, Georgia)
	Career fair for children in grades 3-5 at Whit Davis elementary