

Jason G. Wallace

Associate Professor

Curriculum Vitae

March 2022

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Academic History

Present Rank	Associate Professor
Recommended Rank	Full Professor
Proportion Time Assignment	80% research, 20% teaching
Tenure Status	Tenured
Graduate Faculty	2015-Present

Education

2011	Ph. D. – Yale University	Molecular, Cellular and Developmental Biology
2008	M. S. – Yale University	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	Nomination - 40 under 40	Georgia Trend Magazine
November 2018	New Innovator in Food and Agriculture Research Award	Foundation for Food and Agriculture Research
July 2015	Travel Awards for Early Career Professionals	Phytobiomes Conference 2015
2010–2011	Annie Le Memorial Fellowship	Yale University
September 2010	Poster award for “Most Creative Project”	Yale University MCDB Departmental Retreat
2000–2001, 2003–2006	Gordon B. Hinckley Presidential Scholarship	Brigham Young University

Instruction

Instructor of Record

CRSS 8010	Research Methods and Design in Crop Science	3 credits
	<ul style="list-style-type: none">Fall 2022Fall 2020Fall 2018Fall 2016	
PBGG 8860	PBGG Student Communication Seminar	1 credit
	<ul style="list-style-type: none">Spring 2022	
PBGG 8861	PBGG Student Research Seminar	1 credit
	<ul style="list-style-type: none">Spring 2022	
PBGG 8874	Genomic selection	1 credit
	<ul style="list-style-type: none">Spring 2021Spring 2019Spring 2017	
PBGG 8875	Genome-wide association in plants	1 credit
	<ul style="list-style-type: none">Spring 2021Spring 2019Spring 2017	

Guest Lectures

Spring 2021	PBGG Student Communication Seminar (PBGG 8860)
Spring 2021	PBGG Student Research Seminar (PBGG 8861)
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)

Student Mentorship

Chair (Current)

PhD 2020-present	Talamantes, Darrian “Roy”	UGA Institute of Bioinformatics
PhD 2019-present	Corut, Kivanc	UGA Institute of Bioinformatics
PhD 2019-present	Li, Hanxia “Roy”	UGA Institute of Bioinformatics
PhD 2019-present	Schultz, Corey	UGA Institute of Bioinformatics

Chair (Prior)

MS 2022	Griffis, Holly	UGA Department of Genetics
MS 2021	Rodman, Naomi	UGA Department of Crop & Soil Sciences (incomplete)
PhD 2020	Johnson, Matthew	UGA Institute of Plant Breeding, Genetics, and Genomics
MS 2020	Kovar, Lynsey	UGA Institute of Bioinformatics

Co-Chair (Prior)

PhD 2021	Voghoei, Sahar	UGA Department of Computer Science
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Committee Member (Current)

PhD 2020-present	Kwon, Kheeman	UGA Department of Plant Pathology (Melissa Mitchum lab)
MS 2020-present	Wang, Li	UGA Department of Plant Pathology (Pingsheng Ji lab)
PhD 2019-present	Bhattarai, Guarab	UGA Institute of Plant Breeding, Genetics, and Genomics (Patrick Connor lab)
PhD 2019-present	Fernandez-Canela, Josue	UGA Department of Plant Biology (Jeff Bennetzen Lab)
MS 2019-present	Meinecke, Colton	UGA Warnell School of Forestry (Caterina Villari lab)
PhD 2019-present	Miller, Mark	UGA Institute of Plant Breeding, Genetics, and Genomics (Zenglu Li lab)
MS 2019-present	Pathania, Sakshi	UGA Department of Horticulture (Dario Chavez lab)
PhD 2019-present	Piri, Rebecca	UGA Institute of Bioinformatics (Kelly Dawe lab)
PhD 2019-present	Singh, Lovepreet	UGA Department of Crop & Soil Sciences (Andy Paterson lab)
PhD 2018-present	Choi, Soyeon	UGA Department of Genetics (Katrien Devos lab)
PhD 2018-present	Liu, Jianing	UGA Department of Genetics (Kelly Dawe lab)
PhD 2018-present	Sapkota, Manoj	UGA Institute of Plant Breeding, Genetics, and Genomics (Esther van der Knap lab)
PhD 2018-present	Tran, Dung (“Ivy”)	UGA Institute of Plant Breeding, Genetics, and Genomics (Zenglu Li lab)
PhD 2018-present	Wright, Hallie	UGA Institute of Plant Breeding, Genetics, and Genomics (Katrien Devos lab)
PhD 2017-present	Adhikari, Jeevan	UGA Plant Genome Mapping Laboratory (Andy Paterson lab)

Committee Member (Prior)

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 Jackson lab)
PhD 2018	Steketee, Clint	UGA Institute of Plant Breeding, Genetics, and Genomics (Zenglu Li lab)
PhD 2018	Sumabat, Leilani	UGA Department of Plant Pathology (Marin Brewer lab)

Visiting Scientists

Spring 2016	Yuan, Yibing	Graduate student	Sichuan Agricultural University, China
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Undergraduate Mentoring

Summer 2016	Sanford, Tierra	Undergraduate field technician (UGA)
2016-2017	Bagwell, John	Undergraduate field technician (UGA)
Summer 2016;	Rodriguez, David	REU student (New Mexico State University)
2016-2019	Giangacomo, Cecelia	Undergraduate researcher (UGA)
2017	Forester, Ethan	Undergraduate field technician (UGA)
Summer 2017	Mcdonald, Miles	Undergraduate field technician (UGA)
Summer 2017	Randolf, Hayden	Undergraduate field technician (UGA)
Summer 2017	Bejdic, Haris	Undergraduate field technician (UGA)
Spring 2018	Daftarian, Melody	Undergraduate intern (Athens Technical College)
Summer 2018	Morris, Samuel	Undergraduate field technician (UGA)
Summer 2018	Sangoyomi, Bamidele	Undergraduate field technician (UGA)
Summer 2018	Caro, Spencer	Undergraduate field technician (UGA)
Summer 2018	Andrews, Amaja	REEU student & McNair scholar (UGA)
Fall 2018	Leake, Jackson	Undergraduate technician (UGA)
Fall 2018-present	Fox, Laurel	Undergraduate researcher (UGA)
Summer 2019	Brantley, Kamaya	REEU student (UGA)
Summer 2019	Grindle, Coleman	Undergraduate field technician (UGA)
Summer 2019	McCabe, Allison	Undergraduate field technician (UGA)
Summer 2020	### TODO: Summer 2020 undergrads ###	TODO HERE (UGA)
2019-present	Wideman, Kya	Undergraduate researcher (UGA)
2020-present	Kirkpatrick, Caitlin	Undergraduate researcher (UGA)

High School Students

Spring 2018 **Weinmeister, Nathan** Clarke Central High School

Scholarly Activities

Publications

- Wallace, J. G., & Breaker, R. R. (2011). Improved genetic transformation methods for the model alkaliphile *Bacillus halodurans* c-125. *Letters in Applied Microbiology*, 52(4), 430–432. <https://doi.org/10.1111/j.1472-765x.2011.03017.x>
- Block, K. F., Puerta-Fernandez, E., Wallace, J. G., & Breaker, R. R. (2010). Association of OLE RNA with bacterial membranes via an RNA-protein interaction. *Molecular Microbiology*, 79(1), 21–34. <https://doi.org/10.1111/j.1365-2958.2010.07439.x>
- Wallace, J. G., Zhou, Z., & Breaker, R. R. (2012). OLE RNA protects extremophilic bacteria from alcohol toxicity. *Nucleic Acids Research*, 40(14), 6898–6907. <https://doi.org/10.1093/nar/gks352>
- Wallace, J. G., Larsson, S. J., & Buckler, E. S. (2013). Entering the second century of maize quantitative genetics. *Heredity*, 112(1), 30–38. <https://doi.org/10.1038/hdy.2013.6>
- Wallace, J. G., Bradbury, P. J., Zhang, N., Gibon, Y., Stitt, M., & Buckler, E. S. (2014). Association mapping across numerous traits reveals patterns of functional variation in maize. *PLoS Genetics*, 10(12), e1004845. <https://doi.org/10.1371/journal.pgen.1004845>
- Zhang, N., Gibon, Y., Wallace, J. G., Lepak, N., Li, P., Dedow, L., Chen, C., So, Y.-S., Kremling, K., Bradbury, P. J., Brutnell, T., Stitt, M., & Buckler, E. S. (2015). Genome-wide association of carbon and nitrogen metabolism in the maize nested association mapping population. *Plant Physiology*, 168(2), 575–583. <https://doi.org/10.1104/pp.15.00025>
- Wallace, J. G., Upadhyaya, H. D., Vetriventhan, M., Buckler, E. S., Hash, C. T., & Ramu, P. (2015). The genetic makeup of a global barnyard millet germplasm collection. *The Plant Genome*, 8(1). <https://doi.org/10.3835/plantgenome2014.10.0067>
- Upadhyaya, H. D., Vetriventhan, M., Deshpande, S. P., Sivasubramani, S., Wallace, J. G., Buckler, E. S., Hash, C. T., & Ramu, P. (2015). Population genetics and structure of a global foxtail millet germplasm collection. *The Plant Genome*, 8(3). <https://doi.org/10.3835/plantgenome2015.07.0054>