Brad D. Thada

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Objective

I am a 4th year PhD student in plant breeding and genetics from Purdue University researching thermal adaptation of multiple cereal species, focusing on maize and sorghum. I aspire to graduate and advance my career as a plant breeder in the industry, reducing global hunger by improving crop yield and nutrition.

Education

Luuc	allon					
Purdu	e University Doctor of Philosophy Ca Major Professor: Dr. Mit Graduate Research Assis	ndidate: Plant Bree tch Tuinstra	West Lafayette, IN eding and Genetics	2013-Present Expected 2017		
Indian	a Wesleyan University Bachelor of Science: Bio Academic Advisor: Dr. D Honors: Cum Laude	chemistry	Marion, IN	2010		
Profe	essional Experience					
Research Assistant – Purdue University West Lafayette, IN 2013-2017 • Plan, execute and publish plant breeding and genetics related research projects fulfilling degree requirements • Contributor and occasional leader of advisor's maize and sorghum abiotic stress research program Teaching Assistant – Purdue University West Lafayette, IN 2013-2017						
•	Distribution Seek constructive feedbac experience	k from students and	development for AGRY285: Wo professor and implement chang	es to improve classroom		
Plant • •	susceptibility	tion on a calibration	Lebanon, IN panel of maize inbreds to select d crews to perform inoculations			
•		asher systems at opt	imal concentrations and compose	2013 sitions		
•		lem solving while ma ersonal financial goa	aintaining positive customer rela Is by supporting bank products a			
•	Harvested organic beans, Cleaned and prepared pro	peppers and potatoe duce for distribution	-			
 Supervised an international team in planting, tissue sampling, field testing and harvesting Collected soybean data and organized distribution processes for mature germplasm 						
•	-	b of Chemistry and A	rtists' Colors Class and researche	2007-2009 ed better methodologies		

Field Skills

- Improved efficiency and led through complete seasonal cycles of plant breeding operations including seed packaging, seed treatment, preparing seed in planting order, weed control, plant selections, harvest, threshing, winnowing and storage organization
- Phenotyped soybean, maize, sorghum, millet, oat, rye, wheat, barley and rice plants for a multitude of traits including flowering characteristics, plant architecture, biomass, lipid content and photochemical productivity
- Operated farm machinery ranging in size from single-ear corn shellers to single-row soybean combines to commercial farming tractors through involvement with Syngenta, Purdue University, AgReliant Genetics and local farmers

Conducted self- and cross-pollinations on hundreds of Maize and Sorghum plants Completed and implemented safety and operational training for forklift operations in 2013 and 2016 Spent dozens of hours dumping Maize and Sorghum seed on a research planter

Analytical Skills

- Experienced in coding SAS and R statistical programs and completed a course titled "Introduction to SAS for Statistical Analysis" at Purdue University in 2013
- Performed Principle Component Analyses (PCA), extracted Best Linear Unbiased Predictors (BLUPs) and conducted Genomic Selection (GS) on complex data sets
- Prepared and processed extremely large data sets in Microsoft Excel, Microsoft Access and other software programs designed to handle such data sets
- Optimized Genome Wide Association (GWA) analyses on a heat tolerant association panel and streamlined output for easy gene identification on over 700 traits from 2015 to 2016
- Attended a hands-on workshop titled "Data Handling and Analysis Tricks" at the ASA, CSSA and SSSA International Annual Meeting in Minneapolis, MN in 2015
- Completed a full-semester course titled "Statistical Methods for Association Mapping" at Purdue in 2014 Joined a week-long workshop titled "Statistical and Genomic Analysis" by The International Maize and

Wheat Improvement Center (CIMMYT) at Hyderabad, India in 2014

Participated in "Introduction to Plant Quantitative Genetics" and "Advanced Statistical Plant Breeding" classes at the Tucson Plant Breeding Institute in 2014

Leadership Skills

- Trained, supervised, and led students and part time help in field skills through roles at Syngenta, Purdue and AgReliant Genetics
- Facilitated and planned group discussions and continually met with members to give support and guidance as a Small Group Leader at Clear River Church since 2015
- Partook in an intensive two-week management class titled "Applied Management Principals" in 2015 through Purdue's Krannert School of Management to gain a wide array of leadership skills including, but not limited to, business law, finance, operations, strategy, accounting, marketing and economics
- Provided technical assistance and know-how to maximize efficiency as a front-line supervisor and relief branch manager for Lafayette Bank & Trust from 2011 to 2013
- Taught and led a crew of three previously unexperienced cooks to prepare and provide 300⁺ meals per day as the Head cook at Horn Creek Conference Grounds from 2010 to 2011
- Planned, facilitated and debriefed high adventure trips and events through the Center for Adventure Learning at Indiana Wesleyan University from 2009 to 2010

Trained and advised Resident Assistants how to socially, spiritually and academically lead their residents as the Assistant Resident Director for Reed Hall at Indiana Wesleyan University from 2009 to 2010

Developed and implemented opportunities to foster an environment of spiritual, academic, professional and personal growth as a Resident Assistant at Indiana Wesleyan University from 2008 to 2009

Communication Skills

- Presented poster titled "Improvement of Heat Stress Tolerance in Maize by Lipid Alterations of the Plastidic Membrane" at the 70th Annual Corn and Sorghum Seed Research Conference of the American Seed Trade Association in Chicago, IL in Dec., 2016
- Presented poster titled "Towards Understanding Heat Stress Tolerance of Maize in the Tropics" at the Annual Meeting of University and Industry Consortium in Indianapolis, IN in Oct., 2016
- Gave oral presentation titled "Analysis and Prediction of Green Snap using AgReliant's GS pipeline" at internship summary meeting with AgReliant in Lebanon, IN in July, 2016
- Participated in workshop titled "Effective College Teaching" in 2016 by Purdue Colleges of Agriculture and Engineering to develop teaching skills and understand how to maximize student learning
- Gave oral presentation with Khangura, R. titled "GWAS Using TASSEL" at the 1st Collaborative Meeting of Purdue Scientists and Punjab Agriculture University in Ludhiana, Punjab, India in Dec., 2015
- Completed semester-long class titled "Professional Presentations" to improve multiple communication skills across a wide range of audiences at Purdue University in 2015
- Presented poster titled "Towards Understanding Heat Stress Tolerance of Maize in the Tropics" at the International Annual Meeting of ASA, CSSA and SSSA in Minneapolis, MN in Nov., 2015
- Presented poster titled "Improvement of Heat Stress Tolerance in Maize by Lipid Alterations of the Plastidic Membrane" at the Board for International Food and Agricultural Development meeting in West Lafayette, IN in Oct., 2015
- Presented poster titled "Towards Understanding Heat Stress Tolerance of Maize in the Tropics" at the 57th Annual Maize Genetics Conference in St. Charles, IL in March, 2015

Presented poster titled "Heat Stress Tolerance in Maize" at the 68th Annual Corn and Sorghum Seed Research Conference of the American Seed Trade Association in Chicago, IL in Dec., 2014

Presented poster titled "Heat Tolerant Maize for Asia" at the 67th Annual Corn and Sorghum Seed Research Conference of the American Seed Trade Association in Chicago, IL in Dec., 2013

Awards

Graduate Teaching Certificate – Purdue University	2016		
Overall Second Best in Poster Competition – American Seed Trade Association	2016		
Wayne P. Rothgeb Memorial Award – Purdue University	2016		
John Axtell Graduate Student Award in Plant Breeding and Genetics – Purdue University 2015			
Eagle Scout – Boy Scouts of America	2006		

Service Activities

2012-Present
2015-Present
2015-Present
2014-2016
2011-2016
2014-2016

Memberships

National Association of Plant Breeders	2014-Present
American Society of Agronomy	2014-Present
Crop Science Society of America	2014-Present
American Association for the Advancement of Science	2016-Present

References

Available upon request