



CURRICULUM VITAE

NAME: Yi Wang

DATE: 5/20/2020

RANK OR TITLE: Assistant Professor

DEPARTMENT: Horticulture

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DATE OF EMPLOYMENT AT UW-MADISON: 6/12/2017

EDUCATION BEYOND HIGH SCHOOL:

Ph.D. (2012), Plant Breeding and Plant Genetics, University of Wisconsin-Madison, Madison, WI, USA
B.S. (2007), Biological Science, Nanjing Agricultural University, Nanjing, Jiangsu, China

EXPERIENCE:

2017 – present, Assistant Professor (Sustainable Vegetable Production), University of Wisconsin – Madison, Madison, WI, USA (60% Extension, 30% Research, 10% Teaching)
2015 – 2017, Assistant Professor (Potato Physiology), University of Idaho Kimberly Research and Extension Center, Kimberly, ID, USA (85% Research, 15% Extension/Outreach)
2012 – 2015, Research Associate (Potato and Vegetable Crop Production), University of Wisconsin-Madison, Madison, WI, USA
2007 – 2012, Graduate Research Assistant (Potato Physiology), University of Wisconsin-Madison, Madison, WI, USA

RESEARCH:

Research Areas:

- 1) Investigate innovative technologies and practices to improve the water-use and nitrogen-use sustainability of vegetable cropping systems
- 2) Develop useful machine learning tools to predict real-time and end-of-season crop yield, quality, water balance, and nitrogen balance
- 3) Develop production recommendations for new vegetable crops or new varieties with higher water and nitrogen use efficiency

Peer-Reviewed Publications:

Liu, N., W.B. Hills, P.B. Bethke, M.R. Naber, T.W. Crosby, **Y. Wang**, and P.A. Townsend. 2020. Aerial hyperspectral remote sensing of potato N contents and tuber yield. Submitted to *ISPRS Journal of*

Photogrammetry and Remote Sensing.

- Smail, R.A., M.A. Nocco, J.B. Colquhoun, and **Y. Wang**. 2020. Remotely-sensed water budgets for Wisconsin agriculture. Submitted to *Agricultural and Forest Meteorology*.
- Wang, Y.**, M.R. Naber, T.W. Crosby. 2020. Effects of wound healing management on potato post-harvest storability. *Agronomy*. 10: 512. doi: 10.3390/agronomy10040512
- Sun, N., **Y. Wang**, S. Gupta, and C.J. Rosen. 2020. Chemical properties in potato tubers as affected by cultivar and nitrogen rate in storage: implications for acrylamide formation. *Foods*. 9: 352. doi: 10.3390/foods9030352
- Sun, N., **Y. Wang**, S. Gupta, and C.J. Rosen. 2018. Nitrogen fertility and cultivar effects on potato agronomic properties and acrylamide-forming potential. *Agronomy Journal*. 111: 408-418
- Wang, Y.**, L.B. Snodgrass, P.C. Bethke, A.J. Bussan, D.G. Holm, R.G. Novy, M.J. Pavsek, G.A. Porter, C.J. Rosen, V. Sathuvalli, A.L. Thompson, M.T. Thornton, and J.B. Endelman. 2017. Reliability of measurement and genotype x environment interaction for potato specific gravity. *Crop Science*. 57: 1966-1972
- Wang, Y.**, T.L. Brandt, and N.L. Olsen. 2016. A historical look at Russet Burbank potato (*Solanum tuberosum* L.) quality under different storage regimes. *American Journal of Potato Research*. 93: 474-484
- Wang, Y.**, P.C. Bethke, A.J. Bussan, M.T. Glynn, D.G. Holm, F.M. Navarro, R.G. Novy, J.P. Palta, M.J. Pavsek, G.A. Porter, V.R. Sathuvalli, A.L. Thompson, P.J. Voglewede, J.L. Whitworth, D.I. Parish, and J.B. Endelman. 2015. Acrylamide-forming potential and agronomic properties of elite U.S. potato germplasm from the National Fry Processing Trial. *Crop Science*. 56: 1-10
- Wang, Y.**, M.D. Ruark, A.J. Gevens, D.T. Caine, A.L. Raster, N.J. Goeser, and A.J. Bussan. 2015. Processing Snap Bean Variety Responses to Applied Nitrogen and Irrigation in the North Central United States. *Agronomy Journal*. 107: 1401-1410
- Wang, Y.**, P.C. Bethke, M.J. Drilias, W.G. Schmitt, and A.J. Bussan. 2015. A multi-year survey of stem-end chip defect in chipping potatoes (*Solanum tuberosum* L.). *American Journal of Potato Research*. 92: 79-90
- Wang, Y.**, and P.C. Bethke. 2013. Effects of *Verticillium dahliae* infection on stem-end chip defect development in potatoes (*Solanum tuberosum* L.). *Crop Science*. 53: 595–601
- Wang, Y.**, A.J. Bussan, and P.C. Bethke. 2012. Stem-end defect in chipping potatoes (*Solanum tuberosum* L.) as influenced by mild environmental stresses. *American Journal of Potato Research*. 89: 392-399

Current Funding Sources:

- USDA-NIFA-AFRI Foundational and Applied Science Program – “Using hyperspectral remote sensing to develop decision support models for potato nitrogen management” – 2020-2023 (**Wang, Y.**, Townsend, P., Mitchell, P.), \$475,000
- USDA-Hatch Formula Funds – “In-season prediction of potato production using UAV-based hyperspectral imagery and multi-task machine learning for sustainable irrigation management” – 2020-2022, (Zhang, Z., **Wang, Y.**), \$100,000
- Wisconsin Potato Industry Board – “Base funding for improving the sustainability of potato and vegetable production in Wisconsin” – 2020-2021, (**Wang, Y.**), \$25,000
- Wisconsin Potato Industry Board – “Competitive funding for making agronomic recommendations for production of new elite Wisconsin potato cultivars” – 2019-2020, (**Wang, Y.**), \$15,000
- Wisconsin Potato Industry Board – “Competitive funding for evaluation of fresh market and specialty potato varieties for agronomic performance in a low nitrogen environment” – 2020-2021, (**Wang, Y.**), \$15,000
- Wisconsin Potato Industry Board – “Competitive funding for tuber quality and storability profile of new fresh market/table stock and chipping potato varieties” – 2020-2021, (**Wang, Y.**, Fishler, T.), \$15,000

- USDA Wisconsin Specialty Crop Block Grant – “Comparison between Variable Rate Irrigation and conventional center pivot for sustainable vegetable production in Wisconsin” – 2019-2021, (**Wang, Y.**), \$80,000
- Wisconsin Potato Industry Board – “Base funding for improving the sustainability of potato and vegetable production in Wisconsin” – 2019-2020, (**Wang, Y.**), \$25,000
- Wisconsin Potato Industry Board – “Competitive funding for managing late-season potato irrigation and using a model to identify the best irrigation regime for potato productivity under the Wisconsin climate” – 2019-2020, (**Wang, Y.**), \$15,000
- Wisconsin Potato Industry Board – “Competitive funding for making agronomic recommendations for production of new elite Wisconsin potato cultivars” – 2019-2020, (**Wang, Y.**), \$10,000
- Wisconsin Potato Industry Board – “Competitive funding for exploring the use of thermal imaging to monitor hot spot development of potatoes in bulk storage” – 2019-2020, (**Wang, Y.**), \$5,000
- Wisconsin Fertilizer Research Council – “Evaluating Different In-Season Nitrogen Diagnostic Approaches for Production of New Potato Cultivars in Wisconsin” – 2018-2021, (**Wang, Y.**), \$ 63,463
- North Central Sustainable Agriculture Research & Education (NCR-SARE) Professional Development Program – “Water conservation practices for sustainable food production systems: developing an on-line, participatory training vehicle for ag-professional to enhance interaction with farmers” – 2018-2020, (**Wang, Y.**), \$74,959
- USDA-Hatch Formula Funds – “Evaluating reduced later-season irrigation & use a model to identify the best irrigation regime for potato productivity under the Wisconsin climate” – 2018-2020, (**Wang, Y.**), \$100,000

Conference Papers and Abstracts:

- T.W. Crosby, M.R. Naber, **Wang, Y.** 2019. Evaluating different irrigation regimes for potato production in Wisconsin. American Society of Agronomy – Crop Science – Soil Science Annual Conference. San Antonio, TX, USA. November 10 – 13
- Wang, Y.**, M.R. Naber, T.W. Crosby. 2019. Effects of late-season management on potato production in Wisconsin. Potato Association of America Annual Meeting. Winnipeg, Manitoba, Canada. July 28 – August 1
- Wang, Y.**, M.R. Naber. 2019. In-season nitrogen management for new promising potato cultivars. Winnipeg, Manitoba, Canada. July 28 – August 1
- Wang, Y.** 2018. Deficit irrigating new potato cultivars in a greenhouse setting. American Society of Agronomy – Crop Science Society of America Annual Meeting. Baltimore, MD. November 4-7
- Wang, Y.**, M.R. Naber. 2018. Deficit irrigating new potato cultivars in a greenhouse environment. Potato Association of America Annual Meeting. Boise, ID. July 22-26
- Wang, Y.**, J.E. Endelman. 2016. Investigating mean specific gravity and tuber-to-tuber variation of potatoes using different methodologies. American Society of Horticultural Science Annual Conference. Atlanta, GA. August 8-11
- Wang, Y.**, J.E. Endelman. 2016. Heritability and genotype × environment interaction for the specific gravity of potato. Potato Association of America Annual Meeting. Grand Rapids, MI. July 31-August 3
- Wang, Y.** 2016. Elite U.S. potato germplasm with low acrylamide-forming potential during post-harvest storage. European Association of Potato Research Post Harvest Meeting. Wageningen, the Netherlands. June 28-30
- Wang, Y.**, T.L. Brandt, N.L. Olsen. 2015. A Long-term look at Russet Burbank potato storage. Agronomy Society of America – Crop Science Society of America – Soil Science Society of America Annual Meeting. Minneapolis, MN. November 15-18
- Wang, Y.**, J.B. Endelman, P.C. Bethke. 2015. A national effort that helps improve food safety of potato products. American Society of Horticultural Science Annual Conference. New Orleans, LA. August 4-7
- Bethke, P.C., **Y. Wang**, J.B. Endelman. 2015. A national coordinated effort to mitigate food safety concerns

- related to acrylamide in fried potato products through identification of superior germplasm. American Society of Plant Biologists Annual Meeting. Minneapolis, MN. July 26-30
- Wang, Y.,** J.B. Endelman, P.C. Bethke. 2015. A national effort to identify fry processing clones with low acrylamide-forming potential. Potato Association of America Annual Meeting. Portland, ME. July 19-23
- Wang, Y.,** A.J. Bussan, P.C. Bethke, and D.I. Parish. 2014. Collaboration between universities and industry to solve the potato acrylamide problem. Agronomy Society of America-Crop Science Society of America-Soil Science Society of America Annual Meeting. Long beach, CA. November 2-5
- Wang, Y.,** and A.J. Bussan. 2014. Evaluation of agronomic performance of new processing potato varieties with low acrylamide. Agronomy Society of America-Crop Science Society of America-Soil Science Society of America Annual Meeting. Long beach, CA. November 2-5
- Wang, Y.,** P.C. Bethke, A.J. Bussan. 2014. SCRI-Acrylamide agronomic trials identified exceptional clones with low acrylamide. Potato Association of America Annual Meeting. Spokane, WA. July 27-31
- Wang, Y.,** A.J. Bussan, P.C. Bethke, and D.I. Parish. 2014. SCRI-Acrylamide project: we are ready for 2014. Potato Expo of National Potato Council. San Antonio, TX. January 8-10
- Wang, Y.,** M.D. Ruark, and A.J. Bussan. 2013. Nitrogen use efficiency of snap bean crops on sandy soils. Soil Science Society of America 2013 conference: improving nitrogen use efficiency in crop and livestock production systems: existing technical, economic, and social impediments and future opportunities. Kansas City, MO. August 13-15
- Bethke, P.C., L.V. Dickman, **Y. Wang,** and A.J. Bussan. 2013. Stem-end chip defect: trial summary from 2009-2012. Potato Association of America Annual Meeting. Quebec City, Canada. July 28-31
- Wang, Y.,** and P.C. Bethke. 2012. Effects of abiotic and biotic stresses on development of potato stem-end chip defect. Potato Association of America Annual Meeting. Denver, CO. August 12-16
- Wang, Y.** 2011. Effects of climate change on agricultural production in the US. International Year of Chemistry Symposium on Stratospheric Ozone and Climate Change. Washington D.C. November 7-10
- Wang, Y.,** and P.C. Bethke. 2011. Stem-end chip defect in tubers used for potato chip production. ASA-CSSA-SSSA Annual Meeting. San Antonio, TX. October 17-19
- Wang, Y.,** and P.C. Bethke. 2011. Causes of stem end chip defect in chipping potatoes. American Society of Plant Biologists Annual Meeting, 2011. Minneapolis, MN. August 6-10

Graduate Student Mentoring:

Current Graduate Students:

Student	Dates on Committee	Graduate Degree	Major
Guolong Liang	2020-2024	Ph.D.	Horticulture, UW-Madison
Trevor Crosby	2018-2023	Ph.D.	Horticulture, UW-Madison

Graduate Student Mentoring Committee:

Student	Dates on Committee	Graduate Degree	Major
Tracy Campbell	2019-2022	Ph.D.	Agronomy, UW-Madison
Jordan Schuler	2019-2021	Master's	Horticulture, UW-Madison
Elizabeth McNamee	2018-2021	Ph.D.	Agronomy, UW-Madison

Paulina Quesada Bolanos	2018-2019	Master's	Plant Breeding and Plant Genetics, UW-Madison
Robert Smail	2017-2020	Ph.D.	Agricultural and Applied Economics, UW-Madison
Shunping Ding	2017-2018	Ph.D.	Plant Pathology, UW-Madison

Review Activities:

Federal grant panel review:

USDA-NIFA-Division of Community and Education, Non-Land-Grant Colleges of Agriculture Grants Program. 2019

USDA-AMS-Specialty Crop Multi-State Program. 2019 (Invitation declined due to conflict of schedule)

Peer review:

Agronomy Journal (9); Crop Science (8); American Journal of Potato Research (15); Potato Research (2); Journal of Agricultural Biotechnology and Sustainable Development (2); Journal of Stored Products and Postharvest Research (4)

EXTENSION:

Extension YouTube Channel:

Proud to be a spudbadger!

https://www.youtube.com/channel/UCxPSaKNwmbod_-47N1pyNYg

Extension Bulletins:

Colquhoun, J.B., S.A. Chapman, A.J. Gevens, R.L. Groves, D.J. Heider, B.M. Jensen, G.R.W. Nice, M.D. Ruark, **Y. Wang**. 2020. Commercial Vegetable Production in Wisconsin 2020. University of Wisconsin – Madison Extension Publication A3422. Online (<https://learningstore.extension.wisc.edu/products/commercial-vegetable-production-in-wisconsin>)

Olsen, N.L., T.L. Brandt, R.G. Novy, J.L. Whitworth, Y. Chen, and **Y. Wang**. 2019. Storage management of Mountain Gem Russet potatoes. *University of Idaho Extension Bulletin 931*. Online (<https://www.extension.uidaho.edu/publishing/pdf/BUL/BUL931.pdf>)

Wang, Y., and M.R. Naber. 2018. Use the Canopeo app to determine potato canopy cover. *University of Wisconsin – Extension Bulletin A4171*. Online (<https://learningstore.uwex.edu/Use-the-Canopeo-App-to-Determine-Potato-Canopy-Cover-P1899.aspx>)

Wang, Y. and A.J. Gevens. 2018. Pink eye of potato. University of Wisconsin Farm Facts, XVT1003. Online (<https://pddc.wisc.edu/2018/04/18/pink-eye-potato/>)

Brandt, T.L., N.L. Olsen, J.C. Stark, R.G. Novy, J.L. Whitworth, and **Y. Wang**. 2016. Storage management of Payette Russet potatoes. *University of Idaho Extension CIS (Current Information Series) 1220*. Online (<https://www.cals.uidaho.edu/edcomm/pdf/CIS/CIS1220.pdf>)

Trade Journal Articles:

Wang, Y. 2020. How seed spacing affects yield. *The Badger Common 'Tater*. Vol 72(4): 49-52

Wang, Y. 2020. Effects of higher wound healing temperatures on potato storability. *The Badger Common 'Tater*. Vol 72(1): 60-63

Wang, Y. 2020. Production summary of 2019 growing season. *The Badger Common 'Tater*. Vol 72(1): 37-38

- Wang, Y.** 2019. Using Variable Rate Irrigation for Potato Production. *Badger Common'Tater*. 71(4): 32-34
- Wang, Y.,** and M. Naber. 2018. Deficit irrigating potatoes in a greenhouse environment: study evaluated in-season water use and agronomic responses of fresh market potatoes. *The Badger Common'Tater*. Vol 70(5): 46-48
- Wang, Y.,** A.J. Gevens, and P.C. Bethke. 2018. 2017: Pink eye in potato is problematic – the physiological disorder causes storage issues after a challenging harvest season. *The Badger Common'Tater*. Vol 70(1): 14-17
- Wang, Y.** 2017. Key to irrigation efficiency – learn some commonly recommended irrigation scheduling methods for potato growers. *The Badger Common'Tater*. Vol 69(12): 16-19
- Wang, Y.** 2016. New potato varieties from the western region show promising consumer attributes during long-term storage. *Potato Progress*. Volume XVI, Number 13: pp3-8
- Wang, Y.,** and H.W. Neibling. 2016. New irrigation technologies and strategies reduce groundwater pumping and increase efficiency. *The Badger Common'Tater*. 68(8): 14-17
- Wang, Y.** 2015. A not-so-lovely shade: two color problems of potato products that do matter. *Potato Grower*. 44(11): 54-55
- Wang, Y.** and M.D. Ruark. 2015. Optimal N rate for high yielding, irrigated snap beans. *The Badger Common'Tater*. 67(10): 26-27
- Bethke, P.C., **Y. Wang,** and J.B. Endelman. 2015. National variety trials identify clones with high potential. *The Badger Common'Tater*. 67(9): 20-21
- Wang, Y.** 2015. Center of gravity: individual specific gravity distribution as an indicator of potato variety quality. *Potato Grower*. 44(8): 34

Extension Newsletters:

(2019).

I serve as a coordinator of the UWEX Vegetable Crop Updates for 2019.

1. 2019 growing season summary. *Wisconsin Crop Manager*, Vegetable Crop Update #26. October 6
2. Potato seed spacing trial updates. *Wisconsin Crop Manager*, Vegetable Crop Update #24. September 22
3. Potato early season harvest updates. *Wisconsin Crop Manager*, Vegetable Crop Update #21. September 2
4. Potato production status updates. *Wisconsin Crop Manager*, Vegetable Crop Update #19. August 19
5. Potato and vegetable production updates. *Wisconsin Crop Manager*, Vegetable Crop Update #18. August 11
6. Potato production updates. *Wisconsin Crop Manager*, Vegetable Crop Update #17. August 4
7. Vegetable crop progress updates. *Wisconsin Crop Manager*, Vegetable Crop Update #16. July 28
8. Vegetable crop production updates. *Wisconsin Crop Manager*, Vegetable Crop Update #15. July 21
9. Vegetable crop status updates. *Wisconsin Crop Manager*, Vegetable Crop Update #14. July 14
10. Potato and vegetable production updates. *Wisconsin Crop Manager*, Vegetable Crop Update #12. July 8
11. Vegetable production updates. *Wisconsin Crop Manager*, Vegetable Crop Update #11. June 30
12. Vegetable and potato production status updates. *Wisconsin Crop Manager*, Vegetable Crop Update #7. June 9
13. Vegetable and potato production updates. *Wisconsin Crop Manager*, Vegetable Crop Update #5. May 24
14. Vegetable crop production updates. *Wisconsin Crop Manager*, Vegetable Crop Update #3. May 12

15. Potato and vegetable planting - crop updates. *Wisconsin Crop Manager*, Vegetable Crop Update #2. April 28 (2018).

I serve as a coordinator of the UWEX Vegetable Crop Updates for 2018.

1. Potato production updates. *Wisconsin Crop Manager*, Vegetable Crop Update #24. September 17
2. Potato storage trial updates. *Wisconsin Crop Manager*, Vegetable Crop Update #21. August 27
3. Snap bean and potato crop status updates. *Wisconsin Crop Manager*, Vegetable Crop Update #20. August 19
4. Potato and vegetable production updates. *Wisconsin Crop Manager*, Vegetable Crop Update #19. August 11
5. Crop production updates. *Wisconsin Crop Manager*, Vegetable Crop Update #18. August 6
6. Potato crop progress updates. *Wisconsin Crop Manager*, Vegetable Crop Update #17. July 30
7. Potato productivity updates. *Wisconsin Crop Manager*, Vegetable Crop Update #16. July 21
8. Potato crop status updates. *Wisconsin Crop Manager*, Vegetable Crop Update #15. July 15
9. Horticultural updates. *Wisconsin Crop Manager*, Vegetable Crop Update #14. July 7
10. Horticultural updates. *Wisconsin Crop Manager*, Vegetable Crop Update #13. June 30
11. Horticultural updates. *Wisconsin Crop Manager*, Vegetable Crop Update #12. June 23
12. Horticultural updates. *Wisconsin Crop Manager*, Vegetable Crop Update #11. June 16
13. Horticultural updates - determining potato canopy coverage and moisture. *Wisconsin Crop Manager*, Vegetable Crop Update #9. June 9
14. Potato crop status updates. *Wisconsin Crop Manager*, Vegetable Crop Update #8. June 2
15. Potato and processing vegetable crop updates. *Wisconsin Crop Manager*, Vegetable Crop Update #7. May 28
16. Potato crop status updates. *Wisconsin Crop Manager*, Vegetable Crop Update #6. May 20
17. Potato crop progress updates and potato irrigation management. *Wisconsin Crop Manager*, Vegetable Crop Update #5. May 13
18. Horticultural crop updates. *Wisconsin Crop Manager*, Vegetable Crop Update #4. May 5
19. Soil moisture updates. *Wisconsin Crop Manager*, Vegetable Crop Update #3. April 27
20. Horticultural crop updates. *Wisconsin Crop Manager*, Vegetable Crop Update #2. April 22
21. Horticultural updates and upcoming trials for 2018. *Wisconsin Crop Manager*, Vegetable Crop Update #1. April 14

Extension Conference Proceedings:

- Crosby, T.W., M.R. Naber, and **Y. Wang**. 2020. Evaluating different irrigation regimes for potato production in Wisconsin. Proceedings Wisconsin Annual Potato Meetings. Stevens Point, WI. February 4-6
- Wang, Y.**, M.R. Naber. 2020. Making recommendations about nitrogen fertility and seed spacing management for new Wisconsin potato cultivars. Proceedings Wisconsin Annual Potato Meetings. Stevens Point, WI. February 4-6
- M.R. Naber, **Y. Wang**. 2020. Exploring tools to monitor in-season crop nitrogen status. Wisconsin AgriBusiness Classics. Madison, WI, USA. January 15-17
- Wang, Y.**, M.R. Naber, and T.W. Crosby. 2019. Sustainable irrigation management for potato production in Wisconsin. Proceedings Wisconsin Annual Potato Meetings. Stevens Point, WI. February 5-7
- Wang, Y.**, M.R. Naber. 2019. In-season nitrogen management for new Wisconsin potato cultivars. Proceedings Wisconsin Annual Potato Meetings. Stevens Point, WI. February 5-7
- Wang, Y.**, M.R. Naber, and T.W. Crosby. 2019. Impacts of wound healing temperatures on potato storage quality. Proceedings Wisconsin Annual Potato Meetings. Stevens Point, WI. February 5-7
- Wang, Y.** 2019. Variable rate irrigation for vegetable production. Proceedings Wisconsin AgriBusiness Classics. Madison, WI. January 9-11
- Wang, Y.**, M.R. Naber. 2018. Effects of wound healing management on potato storage quality. Proceedings Wisconsin Annual Potato Meetings. Stevens Point, WI. February 6-8

- Wang, Y.,** M.R. Naber. 2018. Efficient irrigation management for potato production. Proceedings Wisconsin Annual Potato Meetings. Stevens Point, WI. February 6-8
- Wang, Y.** 2018. A comprehensive look at irrigation technologies for processing vegetables. Wisconsin AgriBusiness Classis. Madison, WI. January 9-11
- Wang, Y.** 2016. A national effort to lower acrylamide in fry processing potatoes. Washington-Oregon potato conference. Kennewick, WA. January 25-28
- Wang, Y.,** A.J. Bussan, P.C. Bethke, and D.I. Parish. 2014. Outlook for 2014 SCRI-Acrylamide project. Proceedings Wisconsin Annual Potato Meetings. Stevens Point, WI. February 4-6
- Wang, Y.,** A.J. Bussan, and P.C. Bethke. 2013. SCRI acrylamide project helps the potato industry. Proceedings Wisconsin Annual Potato Meetings. Stevens Point, WI. February 5-7
- Wang, Y.,** and P.C. Bethke. 2012. How growers avoid potato stem-end chip defect. Proceedings Wisconsin Annual Potato Meetings. Stevens Point, WI. February 7-9
- Bethke, P.C., and **Y. Wang.** 2011. Stem-end chip defect formation under controlled environment conditions. Proceedings Wisconsin Annual Potato Meetings. Stevens Point, WI. February 1-3
- Wang, Y.,** and P.C. Bethke. 2010. Differences and similarities between potato stem-end chip defect and sugar end defect. Proceedings Wisconsin Annual Potato Meetings. Stevens Point, WI. February 2-4

Extension Talks:

University of Wisconsin – Madison

Date	Role	Presentation title, event, and location	Attendance
2020			
Mar 4	Educator	<i>Using Variable Rate Irrigation to manage processing vegetable production.</i> University of Wisconsin Extension Central Wisconsin Processing Crops Meeting. Hancock, WI	40
Feb 6	Speaker/Educator	<i>Proactive strategies to improve production efficiency of Wisconsin potatoes.</i> University of Wisconsin Extension & Wisconsin Potato and Vegetable Growers Association Grower Education Conference. Stevens Point, WI.	200
Feb 4	Speaker/Educator	<i>Making recommendations about nitrogen fertility and seed spacing management for new Wisconsin potato cultivars.</i> University of Wisconsin Extension & Wisconsin Potato and Vegetable Growers Association Grower Education Conference. Stevens Point, WI	80
2019			
Nov 8	Speaker/Educator	<i>Discussion on Water Quality/Quantity Research.</i> WPVGA Water Task Force. Plover, WI	25
Oct 30	Speaker/Educator	<i>Updates on 2019 agronomic trials of W9133-1rus and W8893-1R.</i> SpudPro Committee Meeting. Hancock, WI	30
Oct 18, 19	Educator	<i>How to be spud-tacular – potato science.</i> UW Horticulture Booth. Wisconsin Science Festival. Madison, WI	500
Aug 27	Speaker/Educator	<i>Research updates on sustainable nitrogen management.</i> WPVGA Water Task Force Meeting. Plover, WI	20
Aug 15	Speaker/Educator	<i>Updates on 2019 processing vegetable crop irrigation research.</i> MidWest Food Products Association summer field day. Hancock, WI	40
Jul 25	Speaker/Educator	<i>Updates on potato sustainable production research.</i> Antigo Potato Field Day. Langlade County Airport Research Station. Antigo, WI	100

Jul 18	Speaker/Educator	<i>Updates on Irrigation, Nitrogen and Spacing Trials.</i> Hancock Agricultural Research Station Field Day. Hancock, WI	150
Mar 28	Speaker/Educator	<i>Talking points of GMO sweet corns.</i> Wisconsin Fresh Market Vegetable Growers Association Spring Field Day. Hancock, WI	30
Mar 6	Speaker/Educator	<i>Sustainable irrigation management for processing vegetables.</i> Central Wisconsin Processing Crops Meeting. Hancock, WI	50
Feb 7	Speaker/Educator	<i>Sustainable irrigation management for potato production in Wisconsin.</i> University of Wisconsin Extension & Wisconsin Potato and Vegetable Growers Association Grower Education Conference. Stevens Point, WI	200
Feb 6	Speaker/Educator	<i>Impacts of wound healing temperatures on potato storage quality.</i> University of Wisconsin Extension & Wisconsin Potato and Vegetable Growers Association Grower Education Conference. Stevens Point, WI	100
Feb 5	Speaker/Educator	<i>In-season nitrogen management for new Wisconsin potato cultivars.</i> University of Wisconsin Extension & Wisconsin Potato and Vegetable Growers Association Grower Education Conference. Stevens Point, WI	80
Jan 28	Speaker/Educator	<i>Irrigation and nitrogen management for vegetable crops.</i> Wisconsin Fresh Fruit & Vegetable Growers Conference. Wisconsin Dells, WI.	40
Jan 24	Panelist/Educator	<i>Roundtable discussion on Wisconsin potato research.</i> Wisconsin Potato and Vegetable Growers Association Member Development Program. Hancock, WI	50
Jan 11	Speaker/Educator	<i>Variable rate irrigation for vegetable production.</i> Wisconsin AgriBusiness Classic. Madison, WI	65
2018			
Oct 12	Speaker/Educator	<i>Potato science – spudtacular.</i> Wisconsin Science Festival. Madison, WI	35
Jul 26	Speaker/Educator	<i>What's going on from a potato production perspective.</i> Antigo Potato Field Day. Langlade County Airport Research Station. Antigo, WI	100
Jul 19	Speaker/Educator	<i>Research updates on irrigation and fertility management.</i> Hancock Agricultural Research Station Field Day. Hancock, WI	150
May 9	Speaker/Educator	<i>Irrigation Management for Sustainable Vegetable Production.</i> Water@UW-Madison Spring Symposium. Madison, WI	250
Apr 27	Speaker/Educator	<i>Irrigation Research Updates.</i> WPVGA Water Task Force Meeting. Hancock, WI	40
Apr 12	Speaker/Educator	<i>Irrigation management in pumpkins.</i> Wisconsin Fresh Market Vegetable Growers Association Spring Field Day. Arlington, WI	100

Mar 7	Speaker/Educator	<i>Irrigation management for processing vegetable crops.</i> Central Wisconsin Processing Crops Meeting. Hancock, WI	75
Feb 21	Speaker/Educator	<i>Efficiently managing wound healing during storage and irrigation during the growing season.</i> The Empire State Potato School. Waterloo, NY	106
Feb 8	Speaker/Educator	<i>Efficient irrigation management for potato production.</i> University of Wisconsin Extension & Wisconsin Potato and Vegetable Growers Association Grower Education Conference. Stevens Point, WI	200
Feb 7	Speaker/Educator	<i>Effects of wound healing management on potato storage quality.</i> University of Wisconsin Extension & Wisconsin Potato and Vegetable Growers Association Grower Education Conference. Stevens Point, WI	100
Jan 24	Speaker/Educator	<i>Post-harvest requirements of fruiting vegetables for prolonged quality and marketability.</i> Wisconsin Fresh Fruit & Vegetable Growers Conference. Wisconsin Dells, WI	10
Jan 11	Speaker/Educator	<i>A comprehensive look at irrigation technologies for processing vegetables.</i> Wisconsin AgriBusiness Classic. Madison, WI	45
2017			
Dec 5	Educator	<i>Potato Science – Spudtacular!</i> DIY Science – the science of food. The Wisconsin Institutes for Discovery. Madison, WI	100
Aug 4	Speaker/Educator	<i>Introducing the new potato production program.</i> Rhinelander State Seed Farm Field Day. Rhinelander, WI	80
Jul 27	Speaker/Educator	<i>New irrigation technologies that might work in Wisconsin.</i> Antigo Potato Field Day. Langlade County Airport Research Station. Antigo, WI	100
Jul 20	Speaker/Educator	<i>Introducing the new potato and vegetable sustainable production program.</i> Hancock Agricultural Research Station Field Day. Hancock, WI	210
2014			
Jul 22	Speaker/Educator	<i>Update on SCRI-Acrylamide agronomic trials in Wisconsin 2014-2015.</i> Hancock Agricultural Research Station Field Day. Hancock, WI	156
Mar 5	Speaker/Educator	<i>How deficit irrigation and different N application rates affect snap bean production on sandy soils.</i> Central Wisconsin Processing Crops meeting. Plover, WI	60
Feb 4	Speaker/Educator	<i>Outlook for 2014 SCRI-Acrylamide project.</i> University of Wisconsin Extension & Wisconsin Potato and Vegetable Growers Association Grower Education Conference. Stevens Point, WI	365
2013			
Dec 3	Speaker/Educator	<i>Influences of deficit irrigation, N application rates and variety selection on processing snap bean production in central Wisconsin.</i>	135

		Midwest Food Processors Association Annual Meeting. Milwaukee, WI	
Jul 23	Speaker/Educator	<i>Update on SCRI-Acrylamide agronomic trials in Wisconsin 2013-2014.</i> Hancock Agricultural Research Station Field Day. Hancock, WI	146
Jun 25	Speaker/Educator	<i>Update on National Fry Processing Trial and National Chip Processing Trial.</i> National Potato Council Summer Meeting. Walla Walla, WA	45
Feb 6	Speaker/Educator	<i>SCRI acrylamide project helps the potato industry.</i> University of Wisconsin Extension & Wisconsin Potato and Vegetable Growers Association Grower Education Conference. Stevens Point, WI	346
2012			
Feb 8	Speaker/Educator	<i>How growers avoid potato stem-end chip defect.</i> University of Wisconsin Extension & Wisconsin Potato and Vegetable Growers Association Grower Education Conference. Stevens Point, WI	335
2010			
Feb 3	Speaker/Educator	<i>Differences and similarities between potato stem-end chip defect and sugar end defect.</i> University of Wisconsin Extension & Wisconsin Potato and Vegetable Growers Association Grower Education Conference. Stevens Point, WI	350

University of Idaho

2017			
Date	Role	Presentation title, event, and location	Attendance
Jan 18	Speaker/Educator	<i>Consumer attributes test of new promising fry processing varieties.</i> Idaho Potato School. Pocatello, ID	200
2016			
Nov 30	Speaker/Educator	<i>Best storage management practices for Clearwater Russet.</i> Oregon State University Hermiston Farm Fair. Hermiston, OR	210
Nov 10	Speaker/Educator/ Coordinator	<i>Quality change and physiological responses during long-term potato storage.</i> Tri-state Potato Industry Storage Research Advisory Committee Meeting. Twin Falls, ID	60
Oct 18	Speaker/Educator	<i>Effects of genetic \times environment interaction on potato specific gravity.</i> National Fry Processing Trial Field Day. East Grand Forks, ND	25
Aug 22	Speaker/Educator	<i>Storage quality evaluation for Pacific Northwest new potato variety development.</i> McCain Foods Field Manager Field Tour. Kimberly, ID	10
Jul 20	Educator	<i>How to grow and store Idaho potatoes?</i> University of Idaho Extension Twilight Agricultural Tour 2016. Kimberly, ID	800
Apr 7	Speaker/Educator	<i>What do we know about potato storage?</i> Idaho Future Farmers of America (FFA) Student Agricultural Tour. Kimberly, ID	30
Feb 3	Speaker/Educator	<i>Update on variety storage trial in Kimberly.</i> Western Regional Potato Variety Development Meeting. Boise, ID	60
Jan 28	Speaker/Educator	<i>A national effort to lower acrylamide in fry processing potatoes.</i> Washington-Oregon Annual Potato Conference. Kennewick, WA	273
Jan 12	Speaker/Educator	<i>National acrylamide agronomic trials update.</i> SCRI acrylamide advisory committee meeting at Potato Expo. Las Vegas, NV	32

2015			
Nov 15	Speaker/Educator/ Coordinator	<i>New perspectives of potato storage research.</i> Tri-state Potato Industry Storage Research Advisory Committee Meeting. Kimberly, ID	55
Nov 4	Speaker/Educator	<i>Acrylamide in potato products and approaches to mitigate it.</i> Idaho Association of Plant Protection Annual Meeting. Jerome, ID	100
Jun 24	Speaker/Educator	<i>Update on variety storage trial 2014-2015.</i> University of Idaho Snake River Pest Management Research Tour/Field Day. Kimberly, ID	200

Extension Planning and Development:

Wisconsin Fresh Market Vegetable Growers Association, Faculty Liaison (2019-Present)

Wisconsin Potato and Vegetable Growers Association, Water Task Force Committee Member (2017-Present)

Wisconsin Potato and Vegetable Growers Association, Planning Committee Member (2017-Present)

MidWest Food Products Association Raw Products Committee Member (2017-Present)

Wisconsin Muck Farmers Association Research Board, Planning Committee Member (2017-Present)

Wisconsin Mint Industry Research Board, Planning Committee Member (2017-Present)

TEACHING:

Teaching Activities:

Hort375.001 – Spring, 2019

Hort121 – Fall, 2018; Fall, 2017

SERVICE:

Member of University of Wisconsin Agricultural Nitrate Working Group, College of Agriculture and Life Sciences, Madison, WI. 2020 – present

Member of Agricultural Ecosystem Major Planning Committee, Department of Agronomy, Department of Horticulture, University of Wisconsin, Madison, WI. 2020

Member of Department of Horticulture Social Committee, University of Wisconsin. 2019-present
Horticulture Department Representative of University of Wisconsin – Madison College of Agriculture and Life Sciences Equity and Diversity Committee. 2019-2021

Potato Association of America – Extension, Production and Management Section. Chair, 2019-2020.
Vice chair, 2018-2019. Secretary, 2017-2018

American Society of Agronomy – Biophysical Measurements & Sensors Community, Chair, 2019-2020.
Vice Chair, 2018-2019

Member of Department of Horticulture Equity and Diversity Committee, University of Wisconsin, Madison, WI. 2018-2019

Potato Association of America – Physiology Section, 2010-present. Chair, 2018-2019. Vice chair, 2017-2018. Secretary, 2016-2017

Member of Department of Horticulture Arlington Farm Committee, University of Wisconsin, Madison, WI. 2017-2019

Spudman Emerging Leader Award Selection Committee. 2019

Commencement Marshal for the Spring 2018 Commencement Ceremony for Bachelor's Degree, May 12, 2018, Camp Randall Stadium

Commencement Marshal for the Spring 2018 Commencement Ceremony for PH.D., D.M.A., M.F.A., Medical Professional Degrees, May 11, 2018, Kohl Center

Commencement Marshal for the Winter 2017 Commencement Ceremony for PH.D., M.F.A., Professional Degrees, all Master's Degrees and Bachelor's Degrees. December 17, 2017. Kohl Center
Tri-States (ID, OR, WA) Potato Variety Development Advisory Committee. 2015-2017. Secretary, 2015-2016. Vice chair, 2016-2017
Spudwoman of the Year Award Selection Committee. 2017
Tri-Societies (American Society of Agronomy – Crop Science Society of America – Soil Science Society of America) Outstanding Extension Educator Award Selection Committee. 2013-2015

HONORS AND AWARDS:

2020 2020 Fruit + Vegetable 40 Under 40 Awards
2017 2017 Spudman Emerging Leader Award
2011 U.S. Department of Energy Travel Grant for 2011 IYC Symposium on Stratospheric Ozone and Climate Change
2011 American Society of Plant Biologists Annual Meeting Travel Grant
2011 UW-Madison Vilas Conference Presentation Awards
2009 Wisconsin distinguished graduate student fellowship, UW-Madison
2006 Distinguished undergraduate award for biology major, Nanjing Agricultural University
2005 National scholarship for biological science undergraduate students, Nanjing Agricultural University

SCIENTIFIC MEMBERSHIPS:

Potato Association of America (2010 – present)
American Society of Agronomy (2013 – present)
Crop Science Society of America (2013 – present)
Soil Science Society of America (2013 – present)
American Society for Horticultural Science (2015 – 2017)
American Society of Plant Biologists (2010 – 2012)