

TEXAS STATE VITA**I. Academic/Professional Background**

A. Name: Prosanta Kumar Dash

Title: Assistant Professor

B. Educational Background

<i>Degree</i>	<i>Year</i>	<i>University</i>	<i>Major</i>	<i>Thesis/Dissertation</i>
Doctor of Philosophy (Ph.D.)	2015-2019	University of Florida, USA	Horticultural Sciences	Dissertation
Master of Science in Horticulture (MSc.)	2010-2011	Bangladesh Agricultural University	Horticulture	Thesis
Bachelor of Science in Agriculture (BSc. in Ag.) (Hons.)	2005-2009	Khulna University, Bangladesh	Agriculture	Thesis

C. University Experience

<i>Title</i>	<i>Year</i>	<i>University</i>	<i>Department</i>
Assistant Professor	2026-present	Texas State University	Agricultural Sciences
Assistant Professor	2024-2026	Eastern Kentucky University, USA	Agricultural Sciences
Associate Professor	2019-2023	Khulna University, BD	Agrotechnology
Assistant Professor	2014-2019	Khulna University, BD	Agrotechnology
Lecturer	2012-2014	Khulna University, BD	Agrotechnology

D. Relevant Professional Experience

<i>Title</i>	<i>Year</i>	<i>University</i>	<i>Department</i>
Postdoctoral Research Associate	2022-2024	Texas A&M University at Qatar	Mechanical Engineering program

E. Other Professional Credentials (licensure, certification, etc.): N/A

II. TEACHING

A. Teaching Honors and Awards:

B. Courses Taught:

<i>Course Prefix and Number</i>	<i>Title</i>	<i>Times Taught</i>	<i>University</i>
AG 5310	Research Methods	Fall 2026	Texas State University
OHO 131	Plant Science	Fall 2024	Eastern Kentucky University (EKU)
OHO 132	Plant Science Laboratory	Fall 2024	EKU
OHO 365	Plant Identification I	Fall 2024	EKU
OHO 375	Postharvest Technology of Horticultural Crops	Fall 2024	EKU
AGR 300	Travel Study in Agricultural Technology	Spring 2025	EKU
OHO 370	Landscape Operations Management	Spring 2025	EKU
OHO 372	Horticulture retail/Wholesale Management	Spring 2025	EKU
OHO 499	Horticulture Issues Capstone	Spring 2025	EKU
OHO 131	Plant Science	Fall 2025	EKU
OHO 132	Plant Science Laboratory	Fall 2025	EKU
OHO 374	Vegetable Production	Fall 2025	EKU
OHO 301	Directed Work Experience	Fall 2025	EKU
AGR 300	Travel Study in Agricultural Technology	Spring 2026	EKU
OHO 373	Fruit Production	Spring 2026	EKU
OHO 388	Greenhouse Operations and Management	Spring 2026	EKU
OHO 391	Landscape Design and Methods	Spring 2026	EKU

C. Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):

Thesis committee member: Biological Science Department, Eastern Kentucky University (2024-2026)

Dissertation committee member: Agrotechnology Discipline, Khulna University, Bangladesh (2021-2026)

D. Courses Prepared and Curriculum Development:

<i>Course Prefix and Number</i>	<i>Title</i>	<i>Times Taught</i>	<i>University</i>
AG 5310	Research Methods	Fall 2026	Texas State University
OHO 131	Plant Science	Fall 2024	Eastern Kentucky University (EKU)
OHO 132	Plant Science Laboratory	Fall 2024	EKU

OHO 365	Plant Identification I	Fall 2024	EKU
OHO 375	Postharvest Technology of Horticultural Crops	Fall 2024	EKU
AGR 300	Travel Study in Agricultural Technology	Spring 2025	EKU
OHO 370	Landscape Operations Management	Spring 2025	EKU
OHO 372	Horticulture retail/Wholesale Management	Spring 2025	EKU
OHO 499	Horticulture Issues Capstone	Spring 2025	EKU
OHO 131	Plant Science	Fall 2025	EKU
OHO 132	Plant Science Laboratory	Fall 2025	EKU
OHO 374	Vegetable Production	Fall 2025	EKU
OHO 301	Directed Work Experience	Fall 2025	EKU
AGR 300	Travel Study in Agricultural Technology	Spring 2026	EKU
OHO 373	Fruit Production	Spring 2026	EKU
OHO 388	Greenhouse Operations and Management	Spring 2026	EKU
OHO 391	Landscape Design and Methods	Spring 2026	EKU

E. Teaching Grants and Contracts

1. Funded External Teaching Grants and Contracts:
2. Submitted, but not Funded, External Teaching Grants and Contracts:
3. Funded Internal Teaching Grants and Contracts:
4. Submitted, but not Funded, Internal Teaching Grants and Contracts:

F. Other:

G. Teaching Professional Development Activities Attended

<i>Training</i>	<i>Organization</i>	<i>Location</i>	<i>Year</i>
Teaching and Learning Durable Skills: <i>Durable Skills in an Age of AI</i> , 2025 Pedagogicon Conference	EKU	Kentucky	2025
Aspire Software Basics Student	Aspire	Online, Missouri	2025

Certification, Aspire Academy, Aspire Software, a ServiceTitan Company			
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III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

1. Books:

a. Scholarly Monographs:

b. Textbooks:

c. Edited Books:

d. Chapters in Books:

e. Creative Books:

2. Articles:

a. Refereed Journal Articles:

1. Chand, J., Reza, M.R., Chowdhury, M., Hager, J., **Dash, P.K.**, Akter, N. and Cammarisano, L. 2026. Liquid organic fertilizers in soilless cultivation: a systematic review of production, performance, challenges, and future prospects. *Frontiers in Sustainability*, <https://doi.org/10.3389/frsus.2026.1775182>
2. **Dash, P.K.**, Waller, A., Baltimore, T., Mandal, P. and Chowdhury, M. 2026. Particle film technology: a pesticide-free strategy for European Corn Borer (*Ostrinia nubilalis* Hübner) management in bell pepper. *HortScience*, <https://doi.org/10.21273/HORTSCI19258-26>.
3. **Dash, P.K.**, Waller, A., Baltimore, T. and Chowdhury, M. 2025. Enhancing water conservation in hydroponically grown strawberries using potassium silicate. *Silicon* (2025), <https://doi.org/10.1007/s12633-025-03534-x>
4. **Dash, P.K.**, Guo, B. and Leskovar, D.I. 2025. Biostimulants alleviate heat stress in organic hydroponic tomato cultivation: a sustainable approach. *HortScience*, 60(3): 344-352. <https://doi.org/10.21273/HORTSCI18039-24>
5. **Dash, P.K.**, Guo, B. and Leskovar, D.I. 2025. Enhancing hydroponic organic tomato

resilience through grafting and bioprotection strategies. HortScience, 60(3): 334-343. <https://doi.org/10.21273/HORTSCI17990-24>

6. Hossain, I., **Dash, P.K.** and Joyanti, R. 2024. Effects of varieties and pot colours on boosting capsicum growth and yield. Journal of the Bangladesh Agricultural University, 22(4), 412-421. <https://doi.org/10.3329/jbau.v22i4.78839>
7. Bushra, F., Mallick, D., Hossain M.B., Pal S.C., **Dash P.K.**, Islam N.K., Mannan M.A. and Das D. (2024). Silicon and potassium fertilization upgrade resilience in bell pepper against salt stress through boosting root growth and fruit yield. Silicon, <https://doi.org/10.1007/s12633-024-03202-6>
8. Das, S., Rahman. T., Rahaman, M., Porter, L.D., Rahman M.M., **Dash, P.K.** and Kamal, Md.M. (2024). Characterization of fall armyworm (*Spodoptera frugiperda* J.E. Smith) resistance in maize. Archives of Phytopathology and Plant Protection, 57(11-12), 823-847. <https://doi.org/10.1080/03235408.2024.2415150>
9. **Dash, P.K.**, Guo, B. and Leskovar, D.I. (2024). Assessing tomato genotypes for organic hydroponic production in stressful environmental conditions. HortScience, 59(2), 188-200. <https://doi.org/10.21273/HORTSCI17481-23>
10. Pal, S.C., Hossain, M.B., Mallick, D., Bushra, F., Abdullah, S.M.R, **Dash, P.K.** and Das, D. 2023. Combined use of seaweed extract and arbuscular mycorrhizal fungi for alleviating salt stress in bell pepper (*Capsicum annuum* L.). Scientia Horticulturae, 325(2024). <https://doi.org/10.1016/j.scienta.2023.112597>
11. **Dash, P.K.**, Guo, B. and Leskovar, D. 2023. Optimizing hydroponic management practices for organically grown greenhouse tomato under abiotic stress conditions. HortScience, 58(10): 1129-1138. <https://doi.org/10.21273/HORTSCI17249-23>
12. **Dash, P. K.**, Guan, Z., Chase, C.A., Agehara, S. and Zotarelli, L. 2023. A strawberry cropping system design for Florida improving early yield and water conservation and its economic effect. HortTechnology, 33(6): 512-519. <https://doi.org/10.21273/HORTTECH05171-23>
13. Mukherjee, S., **Dash, P.K.**, Das, D., and Das, S. 2023. Growth, yield and water productivity of tomato as influenced by deficit irrigation water management. Environmental Process, 10(1):1-21. <https://doi.org/10.1007/s40710-023-00624-z>

14. Islam, N., **Dash, P.K.** and Das, S. 2023. Influence of cannonball tree (*Couroupita guianensis* Aubl.) leaf extract and electrolyzed oxidizing water on postharvest quality of tomato. Journal of Horticulture and Postharvest Research, 6(1): 27-42. <https://doi.org/10.22077/jhpr.2022.5501.1286>
15. Khatun, Z., **Dash, P.K.** and Mannan, A.M. 2022. Influence of precooling systems on postharvest quality and shelf life of dragon fruits (*Hylocereus polyrhizus*). Journal of the Bangladesh Agricultural University, 20(3): 313-322. <https://doi.org/10.5455/JBAU.63376>
16. Roy, N., **Dash, P.K.**, Islam, M., Das, S. and Mannan, A.M. 2022. Genotype and spacing effect on growth, yield and profitability of yardlong bean. Bangladesh Journal of Agricultural Research, 47(2): 169-189.
17. **Dash, P.K.**, Das, S., Ray, J. and Pride, L.R. 2022. Optimization of strawberry precooling temperature using coolbot: a potential postharvest management tool pertinent to the subtropical environment. International Journal of Postharvest Technology and Innovation, 8(3): 271-291. <https://dx.doi.org/10.1504/IJPTI.2022.10050416>
18. Das, S., Rahman, M., **Dash, P.K.**, Mitra, A. and Kamal, M.M. 2022. Transmission attributes of Asian I silverleaf whitefly (*Bemisia tabaci*) modulating the spread of chili leaf curl virus disease in chili (*Capsicum* spp.). Archives of Phytopathology and Plant Protection, 55(6): 699-719. <https://doi.org/10.1080/03235408.2022.2040698>
19. Das S., Rahman, M., Sarker, S., **Dash, P.K.**, Poter, L., Kamal, M.M. 2022. Characterization of hostplant innate immunity from kharif-II rice cultivars against rice leaf folder (*Cnaphalocrocis medinalis* Guen.) via *in-situ* screening and physicochemical assays. Asia Pacific Entomology, 25(1): 101860. <https://doi.org/10.1016/j.aspen.2021.101860>
20. **Dash, P.K.**, Chase, C.A., Agehara, S. and Zotarelli, L. 2022. Alleviating heat stress during early-season establishment of containerized strawberry transplants. Journal of Berry Research, 12(1): 19-40. <https://doi.org/10.3233/jbr-210702>
21. **Dash, P.K.**, Das, S., Mannan, M.A. and Jahan, M. 2021. Comparative evaluation of onion germplasm (*Allium cepa* L.) in Bangladesh on physical and antioxidant properties. SAARC Journal of Agriculture, 19(1): 113-123. <https://doi.org/10.3329/sja.v19i1.54783>
22. Sultana, R., **Dash, P.K.**, Das, S., Mannan, M.A. and Gomasta, J. 2021. Feasibility of growing vegetables in hanging sac with different levels of manure.

Bangladesh Journal of Agricultural Research, 46(1): 35-42.
<https://doi.org/10.3329/bjar.v46i1.63312>

23. Das, S., Rahman, M., **Dash, P.K.** and Kamal, M.M. 2020. Suppression of chili leaf curl virus (ChLCV) incidence in chili (*Capsicum annuum* L.) across Bangladesh via manipulated planting date and spacing. Journal of Plant Diseases and Protection, 127(6): 1-14. <https://doi.org/10.1007/s41348-020-00397-9>
24. **Dash, P.K.**, Das, S., Ray, J. and Mukherjee, S. 2020. Containerized soil-less vegetable seedlings production techniques and profitability for Bangladesh. International Journal of Bioscience, 17(3): 144-153.
25. **Dash, P.K.**, Chase, C.A., Agehara, S. and Zotarelli, L. 2020. Heat stress mitigation effects of kaolin and s- abscisic acid during the establishment of strawberry plug transplants. Scientia Horticulturae, 267:1-10. <https://doi.org/10.1016/j.scienta.2020.109276>

b. Non-refereed Articles:

3. Conference Proceedings:

a. Refereed Conference Proceedings:

1. **Dash, P.K.**, Guo, B. and Leskovar, D.I. (2025). Bioprotection and grafting strategies to suppress pest pressure and improve yield of hydroponically grown organic tomato. In: Stoleru, V., Rosca, M. and Nicola, S. (1416). ECH2024: International Symposium on Sustainable Vegetable Production from Seed to Health Booster Sources (pp. 385-392). Bucharest, Romania: ISHS Acta Horticulturae.
2. **Dash, P.K.**, Guo, B. and Leskovar, D.I. (2024). Impact of grafting and planting density on growth, yield and quality of hydroponic tomato grown in Qatar. In: Bogoescu, M.I., Gruda, N.S. and Lagunovschi, V.L. (1391). IX South-Eastern Europe Symposium on Vegetables and Potatoes (pp. 123-130). Bucharest, Romania: ISHS Acta Horticulturae.
3. Leskovar, D.I., Choi, S., Harvey, J., Lee, C., Nagila, A. and **Dash, P.K.** (2024). Controlled environment agriculture trends in Texas: challenges and opportunities for research, education and private-public partnerships. In: Bogoescu, M.I., Gruda, N.S. and Lagunovschi, V.L. (1391). IX South-Eastern Europe Symposium on Vegetables and Potatoes (pp. 123-130). Bucharest,

Romania: ISHS Acta Horticulturae.

b. Non-refereed:

4. Abstracts:

1. **Dash, P.K.**, Waller, A. and Baltimore, T. 2026. Particle film technology: a pesticide-free strategy for European Corn Borer (*Ostrinia nubilalis* Hübner) management in bell pepper. SR American Society of Horticultural Science Conference.
2. Waller, A., Baltimore, T. and **Dash, P.K.** 2025. Enhancing water conservation in hydroponically grown strawberries using potassium silicate. American Society of Horticultural Science Conference, New Orleans, Louisiana. July 28- August 1, 2025. HortScience.
3. Leskovar, D.I., Lee, C., Nagila, A., Harvey, J. and **Dash, P.K.** 2025. Boosting resilience in seedlings and grafted vegetables transplants. IX International Symposium on Seed, Transplant and Stand Establishment of Horticultural Crops and III International Symposium on Vegetable Grafting. ISHS, ACTA Horticulturae.
4. **Dash, P.K.**, Guo, B. and Leskovar, D.I. (2024). Bioprotection and grafting strategies to suppress pest pressure and improve yield of hydroponically grown organic tomato. European Horticultural Congress 2024, Bucharest, Romania. ISHS, ACTA Horticulturae, 1416.
5. **Dash, P.K.**, Guo, B. and Leskovar, D. 2023. A flashforward look at organically grown greenhouse tomato responses to hydroponic management strategies under abiotic stress environments. HortScience 58(9): S146.
6. Leskovar, D., Choi, S., Harvey, J., Lee, C., Nagila, A. and **Dash, P.K.** 2023. Controlled environment agriculture trends in Texas: challenges and opportunities for research, education and private-public partnerships. Acta Horticulturae, Symposium nr 778, abstract nr 117.
7. **Dash, P.K.**, Guo, B. and Leskovar, D. 2023. Impact of grafting and planting density on growth, yield and quality of hydroponic tomato grown in Qatar. Acta Horticulturae, Symposium nr 778, abstract nr 123.

5. Reports:

6. Book Reviews:

7. Essays:

8. Poems:

9. Short Stories:

10. Other Works in Print:

B. Works Not in Print:

1. Papers Presented at Professional Meetings:

1. **Dash, P.K.**, Waller, A. and Baltimore, T. 2026. Particle film technology: a pesticide-free strategy for European Corn Borer (*Ostrinia nubilalis* Hübner) management in bell pepper. SR American Society of Horticultural Science Conference, Louisville, KY. January 30- February 1, 2026.

2. Waller, A., Baltimore, T. and **Dash, P.K.** 2025. Enhancing water conservation in hydroponically grown strawberries using potassium silicate. American Society of Horticultural Science Conference, New Orleans, Louisiana. July 28- August 1, 2025. Session Controlled Environment 2 (CE2).

3. **Dash, P.K.**, Guo, B. and Leskovar, D.I. 2024. Bioprotection and grafting strategies to suppress pest pressure and improve yield of hydroponically grown organic tomato. V European Horticultural Congress-EHC2024 (SHE2024), Bucharest, Romania. May 12-16, 2024. Session V: Disease and Pest Control.

4. **Dash, P.K.**, Guo, B. and Leskovar, D. 2023. Impact of grafting and planting density on growth, yield and quality of hydroponic tomato grown in Qatar. International Society for Horticultural Science Conference, Bucharest, Romania. September 5-9, 2023.

5. Leskovar, D., Choi, S., Harvey, J., Lee, C., Nagila, A. and **Dash, P.K.** 2023. Controlled environment agriculture trends in Texas: challenges and opportunities for research, education and private-public partnerships. International Society for Horticultural Science Conference, Bucharest, Romania. September 5-9, 2023.

6. **Dash, P.K.**, Guo, B. and Leskovar, D. 2023. A flashforward look at organically grown greenhouse tomato responses to hydroponic management strategies under abiotic stress environments. American Society of Horticultural Sciences Conference, American Society for Horticultural Science Conference, Orlando, FL. July 31 to August 4, 2023.

2. Invited Talks, Lectures, and Presentations:

Invited talk: Pannel discussion member, Kentucky Green Industry Summer Conference at the Parklands of Floyds Fork, Louisville, KY (10/12/2025)

3. Consultancies:

4. Workshops:

5. Other Works not in Print:

a. Works "submitted" or "under review":

b. Works "in progress":

c. Other Works Not in Print:

C. Scholarly / Creative Grants and Contracts:

1. Funded External Grants and Contracts:

Enhancing water conservation in hydroponically grown strawberries using potassium silicate. Kentucky Commercialization Venture (KCV) Goal Program. 2025.

2. Submitted, but not Funded, External Grants and Contracts:

3. Funded Internal Grants and Contracts:

- Particle film technology: alternative to chemical pesticides for controlling European corn borer (*Ostrinia nubilalis* Hubner) and enhancing bell pepper yields. ECU Funded Scholarship (2025-2026).
- Enhancing water efficiency in hydroponic strawberries with potassium silicate: a sustainable approach. ECU Funded Scholarship (2024-2025).

4. Submitted, but not Funded, Internal Grants and Contracts:

D. Scholarly / Creative Fellowships, Awards, Honors:

- Khulna University Merit Scholarship, BD (2005 to 2009)
- Bangladesh Agricultural University Merit Scholarship, BD (2010 to 2011)
- Ministry of Science and Technology Research Scholarship, BD (2011)
- VLIR-UOS Masters Scholarship (Molecular Biology) in Belgium (2015)
- Borlaug Higher Education for Agricultural Research and Development (BHEARD) Scholarship, USA (2015)
- Travel Grant Award for ASHS conference, USA (2017)
- Bobby F. McKnown scholarship, College of Agricultural and Life Sciences (CALS), University of Florida, USA (2017 to 2018)
- Outstanding Academic Achievement Award, University of Florida International Center, USA (2016)

- Best Dissertation Award, Horticultural Sciences Department, University of Florida, USA (2019)
- Postdoctoral Fellowship at Texas A&M University at Qatar (2022)

E. Scholarly / Creative Professional Development Activities Attended:

F. Media Recognition:

IV. SERVICE

A. Institutional

1. University:

- University Library Committee Member (2024-2026)
- Student Disciplinary Council Committee Member (2025-2026)
- Undergraduate Course Coordinator (2013-2015 & 2020-2022)
- Assistant Director of Students Affairs (2020-2022)

2. College:

- STEM Strategic Planning & Budget Committee Member (2024-2026)
- STEM Research and Faculty Development Committee Member (2024-2026)

3. Department/School:

Graduate Executive Committee Member (2026-Present)

- Scholarship Committee Member (2024-2026)

B. Professional:

- Nominations and Elections Committee Members of American Society for Horticultural Sciences (ASHS) (2024-present)
- Associate Executive Editor at South Asian Journal of Agriculture (SAJA) (2020-2025)

C. Community:

D. Organization Memberships:

- American Society for Horticultural Science (2015 to present)
- Southern Region American Society for Horticultural Science (2025 to present)
- Sustainability Academic Network (SUSAN) (2025 to present)
- Kentucky Academy of Science (2025 to present)
- International Society for Horticultural Sciences (2022 to 2025)
- Florida State Horticultural Society (2015 to 2018)
- Life member of Bangladesh Agriculturist Society (2014 to present)

- Life Member of Agrotechnology Alumni Association (2015 to present)
- Member of University of Florida Alumni Association, USA (2019 to present)
- Member of Bangladesh Agricultural University Alumni Association (2011 to present)

E. Service Honors and Awards:

F. Service Grants and Contracts:

1. Funded External Service Grants and Contracts:

2. Submitted, but not Funded, External Service Grants and Contracts:

3. Funded Internal Service Grants and Contracts:

4. Submitted, but not Funded, Internal Service Grants and Contracts:

G. Service Professional Development Activities Attended: