

CURRICULUM VITAE

Name: Paul Kweku Tandoh
Nationality: Ghanaian
Address: Department of Horticulture,
Faculty of Agriculture,
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Kumasi, Ghana
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a. Academic Degrees earned with dates

2025 MED Higher Education Pedagogy
2017-2022 PhD Seed Science and Technology
2014-2016 MPhil Seed Science and Technology
2002-2006 BSc. Agriculture
1997-2000 Senior Secondary School Certificate Examination (SSSCE)

b. Institutions attended with dates

2025 Kwame Nkrumah University of Science and Technology, Kumasi
2017-2022 Kwame Nkrumah University of Science and Technology, Kumasi
2014-2016 Kwame Nkrumah University of Science and Technology, Kumasi
2002-2006 Kwame Nkrumah University of Science and Technology, Kumasi
1997-2000 Ghana Secondary Technical School, Takoradi

2. UNIVERSITY TEACHING AND RESEARCH EXPERIENCE

a. Teaching Experience

1. Lecturer: Department of Horticulture, KNUST, Kumasi Ghana. November, 2022-
Date
2. Assistant Lecturer: Department of Horticulture, KNUST, Kumasi Ghana. July,
2021-October, 2022.
3. Part-time Lecturer: Anglican University College Technology, Ghana- Nkoranza
Campus. October, 2018- December, 2021

Courses taught

1. Seed Industry in Ghana (Postgraduate)
 2. Research Methods (Postgraduate)
 3. Seed Science and Technology
 4. Experimental Design and Analysis
 5. Postharvest Physiology of Perishable Crops
 6. Plant Propagation
 7. Vegetable Crop Production
 8. Ornamental Horticulture
 9. Horticulture Crop Production (IDL)
 10. Organic and Sustainable Horticulture
4. Facilitator: OkuafoPa Agribusiness Programme, March, 2020-Date

Subjects taught

1. Greenhouse Vegetable Crops Production

b. Research Experience

- i. Effect of hydropriming durations on growth and seed yield of two rice varieties:
January, 2024-May, 2024
- ii. Effect of hydropriming durations on growth and seed yield of two okra varieties:
January, 2024-May, 2024
- iii. Hard seed dormancy in sour sop: January, 2024-May, 2024

- iv. Bio-seed enhancement in soyabean for sustainable seed quality: January, 2024-May, 2024
- v. Effect of different dormancy-breaking techniques on the germination and early seedling growth of rice: March, 2022-December, 2023
- vi. Effect of different dormancy-breaking techniques on the growth and seed yield of roselle seeds: April, 2021 to November, 2021
- vii. Effects of SIDALCO PLUS Growth Activators on growth, yield and fruit quality of cucumber. June, 2021 to August, 2021
- viii. Effects of FERTICROP Growth Activators on growth, yield and fruit quality of okra. April, 2021 to July, 2021
- ix. Effects of FERTICROP Growth Activators on growth, yield and fruit quality of cucumber. May, 2021 to August, 2021
- x. Internal and external quality responses of Roselle seeds to different harvesting periods and storage packaging for long-term conservation: PhD thesis-2017-Date
- xi. Effects of FULGRIC Growth Activators on growth, yield and fruit quality of pepper. December, 2019 to February, 2020.
- xii. Effects of FULGRIC Growth Activators on growth and yield of maize. December, 2019 to March, 2020.
- xiii. Effects of ECOGOLD Bio-stimulants/Growth Activators on growth, yield and fruit quality of chilli peppers. July-September, 2020.
- xiv. Effect of Agripower Bio-stimulants/Growth activators on growth, yield and fruit quality of cucumbers. January - March, 2020.
- xv. Effect of FORCROP K Bio-stimulants/Growth activators on growth, yield and fruit quality of cucumbers. January-March, 2020.
- xvi. Effects of IODICA Bio-stimulants/Growth activators on growth, yield and fruit quality of okra. August - December, 2018.
- xvii. Effect of different rates of AGRODYKE organic fertilizer on growth and leaf yield of lettuce. March - May, 2018.
- xviii. Effect of different rates of FERTISOL organic fertilizer on growth, flowering and fruit yield of okra. 2017 – 2018.

- xix. The flowering pattern and pod yield response of advanced aged cocoa trees to different bio-stimulants in Ghana. August, 2017 to April, 2018.
- xx. Growth and yield response of maize to different rates of ALGUA foliar fertilizer. August - December, 2017.
- xxi. Effects of BACSTONE foliar fertilizer on growth, yield and quality of okra. August - December, 2017
- xxii. Effect of different rates of WUXAL (10-10-7.5) liquid fertilizer on growth and leaf yield of lettuce. August - December, 2016.
- xxiii. Growth and yield response of two tomato cultivars to different rates of ASASEGYEFO bio-fertilizer. August - December, 2016.

3. TECHNICAL EXPERIENCE

Jan. 2019-June, 2021 Chief Research Assistant (Department of Horticulture-KNUST)

Duties

- Supervision of field staff to promote research activities
- Experimental data collection, statistical analysis and manuscript preparation for publication
- Assisting students in research proposal and thesis writing
- Handling tutorials for seed science related courses.
- Field Experimental set up for postgraduate and undergraduate students
- Technical administration and store keeping

2013-2018 Principal Technician (Department of Horticulture-KNUST)

Duties

- Handling tutorials for seed science related courses.
- Field Experimental set up for postgraduate and undergraduate students
- Evaluation trials on seed quality for horticultural crops
- Experimental data collection, statistical analysis and report writing
- Assisting students in research proposal and thesis writing and presentation

2007-2012 Senior Technician (Department of Horticulture, KNUST, Kumasi)

Duties Field data collection for various research/project activities
Student experiments on horticultural crops production
Assisting with student practical training during vacation training programmes
Labour management and field supervision of workers of field staff
Supervising all the landscape projects awarded to the Department
Giving practical training to students on educational tours
Planning, Budgeting and accounting procedures on Departmental commercial projects

4. MEMBERSHIP OF PROFESSIONAL BODY

2005-Date: Member of Ghana Institute of Horticulturist (GhIH).

2020-Date Fellow of Africa Research Impact Network

5. CONSULTANCY EXPERIENCE

Vegetable Seed Promoter and Consultant: Seminis and Macrofertil Ghana Ltd.-October, 2019 to Date.

Duties Conducting on-farm field demonstrations/experiments on seeds of onions, sweet peppers and tomatoes in Ashanti, Northern and Volta Regions of Ghana
Organizing farmer trainings on Good Agricultural Practices for vegetable farmers within the study Regions
Writing of experimental reports and updates on field activities every month
Organizing a seed promotion and field days for the selected vegetable seeds

6. RESEARCH PUBLICATIONS

1. **Tandoh, P. K.**, Idun, I. A., Osei, M., Opoku, P., Owusu, J., Osei-Poku, B., & Allotey, D. (2025). Influence of Different Seed Dormancy-Release Techniques on Viability and Early Seedling Growth of Soursop (*Annona muricata*) Seeds. *Ghana Journal of Science, Technology and Development*, 11(1), 108-119.
2. **Tandoh, P. K.**, Idun, I. A., Agyeman, A. B., & Akweso, B. E. (2025). Seed Viability, Growth and Yield Responses of Two Okra (*Abelmoschus Esculentus* L.) Varieties to Different Hydro-Priming Durations. *Journal of Science and Technology (Ghana)*, 43(1), 50-62.
3. **Tandoh, P. K.**, Idun, I. A., Bemanu, B. Y., Nyagblordzro, A. K., Kwaah, S., & Damtuh, A. (2025). Growth and seed yield responses of two soybean (*Glycine max* L. Merr.) varieties to coconut water priming. *Journal of Applied Science and Environment*. Vol. 57, Issue 4 (200) / 2024: 723-741. <https://doi.org/10.46909/alse-574160>
4. Alhassan, M., Kumah, P., **Tandoh, P. K.**, & Idun, I. A. (2025). Effect of pod size and fermentation method on temperature changes and the chemical quality of cocoa (*Theobroma cacao*) beans. *Journal of Applied Science and Environment*. Vol. 58, Issue 2 (202) / 2025: 233-244 pg 233-244. <https://doi.org/10.46909/alse-582174> \
5. Amponsah, J., Kumah, P., Appiah, F., Idun, I. A., & **Tandoh, P. K.** (2025). Influence of paclobutrazol concentrations, soil types and production seasons on physicochemical attributes of Keitt mangoes. *Journal of Applied Science and Environment*. Vol. 58, Issue 1 (201) / 2025: 85-12. <https://doi.org/10.46909/alse-581167>
6. Adjei, E. A., Banful, B. K. B., Asiedu, E. A., Asibuo, J. Y., Yeboah, S., & **Tandoh, P. K.** (2024). Effects Of Storage Container and Storage Condition on Seed Health Quality of Common Bean Variety Ennepa in Southern Ghana. *Journal of Science and Technology (Ghana)*, 1(1), 33-46.
7. **Tandoh, P. K.**, Idun, I. A., Aculey, P., Adu, E., & Osam, Y. N. (2024). Impact of hydro-priming durations on viability, growth and seed yield of two rice (*Oryza sativa*) varieties. *Science World Journal*, 19(3), 752-764.

8. **Tandoh, P. K.**, Idun, I. A., Appiah, J., & Tandoh, J. (2024). Growth and seed yield responses of okra to different rates of kitchen waste compost application in a tropical environment. *Science World Journal*, 19(3), 741-751.
9. Fuseini, A. R., Amaglo, N., & **Tandoh, P. K.** (2024). Influence of sprouting durations on the nutritional composition of seeds of two sesame (*Sesamum indicum*; L.) varieties. *Science World Journal*, 19(3), 730-740.
10. Poku, B. O., Banful, B. K. B., Idun, I. A., **Tandoh, P. K.**, & Osei, M. (2024). Graft success and seedling growth responses of cashew (*Anacardium occidentale*) to three concentrations of Indole Butyric Acid (IBA) and scion types. *International Journal of Agricultural Research, Innovation and Technology (IJARIT)*, 14(2), 132-145.
11. **Tandoh, P. K.**, Idun, I. A., Duodu, P. A., & Dwomoh, B. (2024). Different harvesting dates influence the growth, seed yield and quality of two rice varieties in Ghana. *International Journal of Agricultural Research, Innovation and Technology (IJARIT)*, 14(2), 122-131.
12. **Tandoh, P. K.**, Banful, B. K. B., & Idun, I. A. (2024). Effects of Germplasm Accessions and Packaging Materials on The Quality Characteristics of Roselle Seeds. *Journal of Science and Technology (Ghana)*, 42(1).
13. **Tandoh, P. K.**, Banful, B. K. B. and Idun, I. A. (2024). Effects of Germplasm Accessions and packaging Materials on the Quality Characteristics of Roselle Seeds Stored Under Ambient Conditions. *Journal of Science and Technology*, Vol. 42 No. 1 (In press)
14. J.M., Asante and N., Amaglo and **P.K, Tandoh** (2024) *Effect of Different Drying Methods on the Mineral Composition of Three Indigenous Leafy Vegetables*. *International Journal of Plant & Soil Science*, 36 (5). pp. 621-632. ISSN 2320-7035
15. H-V, Adzraku and M, Blay and **PK, Tandoh** (2024) *Impact of Biochar on Pathogenic Bacteria and Bermuda Grass (Cynodon dactylon) Growth in Soil Treated with Chicken Manure*. *International Journal of Plant & Soil Science*, 36 (5). pp. 54-65. ISSN 2320-7035
16. Zutah, Victor Tetteh and Sarkodie-Addo, Joseph and Tuffour, Henry Oppong and **Tandoh, Paul Kweku** (2024) *Analyses of Climate Variability and Trends in the Oil*

- Palm Belt of Ghana*. Journal of Experimental Agriculture International, 46 (2). pp. 86-98. ISSN 2457-0591
17. Owusu, F. W. A., El Boakye-Gyasi, M., Bayor, M. T., Ofori-Kwakye, K., Acquah, P. G. J., Quarcoo, E. A., ... & **Tandoh, P. K.** (2024). Evaluation of Okra Pectin from Different Genotypes as Effective Suspending Agents in Pharmaceutical Formulations. *Journal of Pharmacy*, 4(1), 33-50.
 18. Aculey, P., **Tandoh P.K.**, & Gamenya, D. D. (2023). Physiological Seed Quality Responses of Three Rice Varieties to Different Storage Materials under Ambient Conditions. *Journal of Experimental Agriculture International*, 45(9), 135–141. <https://doi.org/10.9734/jeai/2023/v45i92184>
 19. **Tandoh, Paul Kweku**, Irene Akua Idun, and Bridget Yayra Bemanu. "Mitigating Global Food and Nutritional Security: Role of Indigenous Crops." (2023). <https://www.intechopen.com/online-first/86006> (retrieved on 10th August, 2023).
 20. Idun, I. A., Osei, M., and **Tandoh, P. K.** (2022). Identification of Suitable Budwood Source through Quality Assessment of Avocado (*Persea americana* Mill.). *Journal of Experimental Agriculture International*, 44(11), 119-130. <https://doi.org/10.9734/jeai/2022/v44i112058>
 21. **Tandoh, P. K.**, Banful, B. K. B. and Idun, I. A. (2022). Effects of Harvesting Times and Germplasm Accessions on the Physical Properties of Roselle (*Hibiscus sabdariffa* L.) Seeds. *Advances in Agriculture*, 2022. Pages 1-9
 22. **Tandoh, P. K.**, Banful, B. K., Idun, I. A., and Gaveh, E. A. (2021). Growth, Yield and Shattering Dynamics of Seeds of Twelve Roselle (*Hibiscus sabdariffa* L.) Accessions. *Journal of Experimental Agriculture International*, 16-29. <https://doi.org/10.9734/jeai/2021/v43i330653>
 23. Boakye-Dankwa, A., Maleekuu, B. K., Kumah, P. and **Tandoh, P. K.** (2020). Effect of Three Pickling Agents on the Physico-chemical Properties of Two Varieties of Cucumber Stored under Tropical Ambient Conditions. *Archives of Current Research International*, 18-23. <https://doi.org/10.9734/acri/2020/v20i530193>

24. Kumah, P., **Tandoh, P. K.** and Konadu, K. S. (2020). Effect of Different Waxing Materials on the Quality and Shelf Life of Mysore Banana Variety. *Asian Journal of Advanced Research and Reports*, 1-11. <https://doi.org/10.9734/ajarr/2020/v12i130277>
25. Kaledzi, P. D., **Tandoh, P. K.**, and Asana, S. (2020). Effect of Different Media on Germination and Seedlings Performance of Chili Pepper (*Capsicum annum*). *International Journal of Plant & Soil Science*, 32(8), 67-75. <https://doi.org/10.9734/ijpss/2020/v32i830319>
26. Amponsah, J., Kumah, P., **Tandoh, P. K.** (2019). Physical Quality Responses of Cocoa Beans to Inclusion and Exclusion of Placenta and Varied Fermentation Periods. *Archives of Current Research International*, 16(2), 1-12. <https://doi.org/10.9734/acri/2019/v16i230084>
27. Amponsah, J., Kumah, P., and **Tandoh, P. K.** (2019). Effect of Placenta and Fermentation Duration on Drying Dynamics of Cocoa Beans in a Tropical Environment. *Journal of Agriculture and Ecology Research International*, 17(1), 1-10. <https://doi.org/10.9734/JAERI/2018/45924>
28. Awuah, S.K Kumah P. and **Tandoh P.K** (2019). Effect of packaging materials on insect mortality and aflatoxin contamination in stored maize under different conditions. *Journal of Experimental Agriculture International*. 29 (3). Pg. 1-8. <http://10.9734/JEAI/2019/45958>
29. Amoasah, B., Appiah, F., **Tandoh, P.** and Amoateng, E. (2019). Effect of Different Drying Methods on the Mineral Content of Three Accessions of Roselle (*Hibiscus sabdariffa*) Calyces. *Asian Journal of Advanced Research and Reports*, 5(3), 1-10. Retrieved from [http:// 10.9734/ajarr/2019/v5i330133](http://10.9734/ajarr/2019/v5i330133)
30. Nyame-Tawiah.D, Atuah L, **Tandoh P.K.** (2019). Thermal performance of *Setcreasea purpurea* and *Portulaca grandiflora* as a green roof material applied in a tropical climate. *Current Journal of Applied Science and Technology*. 35 (6). Pg. 1-8. <http://10.9734/CJAST/2019/45910>
31. B. Addisou, B. K. Maalekuu and **Tandoh P. K.** (2019) Effect of 1-Methylcyclopropene (1-MCP) Concentrations on the Physical Quality Characteristics of Two Varieties of Plantain Stored under Three Ripening Stages. *Journal of Experimental Agriculture International*. 29 (2). Pg. 1-12. <http://10.9734/JEAI/2019/45666>

32. Mends-Cole, M.T, Banful B.K. and **Tandoh P.K.** (2019). “Seed Quality Responses of Two Chilli Pepper Varieties (*Capsicum frutescens* L.) to Different Planting Dates ”. *Journal of Experimental Agriculture International*. Vol. 30 (2), Pg. 1-11. <http://10.9734/JEAI/2019/46600>
33. Oppong D.A., Kumah P. and **Tandoh P.K.** (2019) Physico-chemical quality responses of mango chips dried to different moisture contents and packaged for six months. *Advances in Research*. Vol 18 (1). Pg. 1-14. <http://10.9734/AIR/2019/46296>
34. Mends-Cole, M.T, Banful B.K. and **Tandoh P.K.** (2019). Flower abortion and fruit yield responses of two varieties of chilli pepper (*Capsicum frutescens* L.) to different planting dates and plant densities. *Archives of Current Research International* Vol 16 (1). Pg 1-11. <http://10.9734/ACRI/2019/46845>
35. **Tandoh, P.K.**, Borteye, H.M., Owusu, S.E. and Amoasah, B. (2018) Effects of Desiccants on the Quality and Conservation Tree Species in a Ghanaian Forest. *Asian Journal of Agriculture and Forestry*. 1(1); pp1-9. doi:10.9734/ajraf/2018/40238
36. Yakubu MS., Maalekuu B.K. and **Tandoh P.K.** (2018). Effect of plant growth regulators on chemical quality characteristics of stored seeds of two cotton varieties. *Asian Journal of Advances in Agricultural Research*. 8 (3). Pg. 1-9. <http://10.9734/AJAAR/2018/46011>
37. Bakpa E. P., Maalekuu B. K. , **Tandoh P. K.** and Aculey P (2018). Effect of Ash-Based Storage Media on the Physical Quality Characteristics and Shelf Life of Three Cultivars of Tomato (*Lycopersicon esculentum*, Mill) Grown in the Greenhouse. *Asian Journal of Agricultural and Horticultural Research* Vol2;4, p1-10. <http://10.9734/AJAHR/2018/45808>
38. Iddrisu I, Adzraku H-V., **Tandoh P.K.** (2018) Effects of different soil-biochar on physico-chemical soil properties, rooting and growth of *Bougainvillea glabra* and *Ficus benjamina* using stem cuttings. *Asian Journal of Agricultural and Horticultural Research*. Vol 1(2):1-16. doi:10.9734/ajahr/2018/40318
39. Eduku A., Maaleeku B.K., Kaledzi P.D. and **Tandoh P.K.** (2018). Development of Bait for the Management of Coffee Bean Weevil, *Araecerus fasciculatus* in Stored Cocoa. *Asian Research Journal of Agriculture*. Vol 8(4): 20-31. doi:10.9734/arja/2018/40496

40. Atuahene, E., Maleekuu B.K., Adjei P.Y. and **Tandoh P.K.** (2018) Yield, quality and shelf-life responses of three varieties of soybeans to three processing temperatures using the Vitagoat system of soymilk production. *Asian Food Science Journal* Vol 1 (2); pp 1-9. doi:10.9734/afsj/2018/39127.
41. Ebeheakey, A.A., Adzraku, H-V and **Tandoh P.K** (2018). Use of Different Sawdust Biochar as Soil Amendments to Improve Allelochemical-laden Soils Caused by Bamboo in the Landscape. *Asian Journal of environment and Ecology*. Vol 6(2):1-11. doi:10.9734/ajee/2018/40546
42. Amponsah J.O., Maalekuu, B.K., Djagbletey, G.D., Asomaning, J.M., Kumah P. and **Tandoh P.K. (2018)**. Phenology and Seed germination improvement of two economic tree species in the moist tropical Bobiri Forest Reserve of Ghana. *Ghana Journal of Forestry*: 14 (2), pp. 22-23.
43. **Tandoh, P.K.**, Banful, B.K., Gaveh, E., and Amponsah, J.O. (2017). Effects of Packaging Materials and Storage Periods on Seed Quality and Longevity Dynamics of *Pericopsis elata* seeds. *Environment, Earth and Ecology*. 1(2):27–38. <https://doi.org/10.24051/eee/76919>
44. Opoku, P.N.A., Banful B.K., Manu-Aduening J., **Tandoh P.K.** and Owusu, S.E (2017). Germination and vigour responses of seeds of three cassava varieties to pre-germination treatments and storage durations. *Asian Journal of Advances in Agricultural Research*. 3(4):1-9. <http://10.9734/AJAAR/2017/38101>
45. Adzraku H-V, **Tandoh P.K.** Zurei H.L. (2017) Use of biochar as media for propagation of some difficult-to-root ornamental plants. *Environment, Earth and Ecology*. 1(2):17–26. <https://doi.org/10.24051/eee/76918>
46. **Tandoh, P.K.**, Banful, B.K., Gaveh, E., Owusu, S.E., Opoku, P. and Amponsah, J.O., (2017). Physiological and Biochemical Quality Response of *Sterculia rhinopetala* Seeds to different Storage Materials and Duration under Ambient Conditions. *Journal of Scientific and Engineering Research*, 4(7), pp.116-125.

7. REFEREES

1. Prof. Ben K. Banful

Professor of Agronomy and Provost,

College of Agriculture and Natural Resources
Kwame Nkrumah University of Science and Technology (KNUST), Kumasi
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2. Prof. Francis Appiah

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3. Dr. Irene A. Idun

Senior Lecturer and Horticultural Scientist,
Department of Horticulture
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Signature.....

