Hue Nguyen

College of Tropical Agriculture and Human Resources

Department of Tropical Plant and Soil Sciences

FTE Distribution: 20% I; 80% R; 0% E

Education

Degree	University	Major
PhD	Auburn University, Alabama	Soil Chemistry
MS	Auburn University, Alabama	Soil Fertility
BS	University of Saigon, Vietnam	Chemical engineering

Professional Appointments

Title	Employer	Dates Employed
Professor	University of Hawaii	1995 to Present
Associate Professor	University of Hawaii	1989 to 1995
Assistant Professor	University of Hawaii	1985 to 1989
Academic Editor (Agricultural soils section)	MDPI, Agriculture Journal	2021 to Present

Courses Taught

Course Number and Title (credits)	
TPSS 435	Environmental Soil Chemistry (3)
TPSS 640	Advanced Soil Chemistry (3)

Publications (reverse chronological order)

Books

None

Book Chapters

1. **Hue, Nguyen**. 2022. Soil Acidity: Development, Impacts, and Management. pp. 103-131. In *Structure and Functions of Pedosphere*. Giri B. et al. (eds). Springer. https://doi.org/10.1007/978-981-16-8770-9.

2. **Hue, Nguyen**. 2020. Biochar for Maintaining Soil Health. In *Soil Health*. Giri B. and Varma A. (eds). Springer Nature Switzerland AG. pp. 21-46. https://doi.org/10.1007/978-3-030-44364-1_2.

3. Ahmad, A., T. Radovich, **N.V. Hue**, J. Uyeda, A. Arakaki, J. Cadby, R. Paull, J. Sugano, G. Teves. 2016. Use of organic fertilizers to enhance soil fertility, plant growth, and yield in a Tropical environment. In *Organic fertilizers: from basic concepts to applied outcomes*. M.L. Larramendy and S. Soloneski (eds.). InTech Publ. Croatia. (ISBN: 978-953-51-2450-4). pp 85-108.

4. **Hue, N.V**. 2015. Bioremediation of arsenic toxicity. In *Arsenic Toxicity: Prevention and Treatment*. Chakrabarty N. (ed.). Chapter 7, CRC Press, Boca Raton, FL. pp 155-165.

5. Radovich, T, A. Pant, A. Ahmad, C. Elevitch and **N. Hue**. 2014. Enhancing soil Function and Plant Health with Locally Available Resources. In *Food-Producing Agroforestry Landscapes For Hawaii*. Permanent Agriculture Resources (PAR): Elevitch C. (ed), Holualoa, Hawai'i. 30 pages.

6. Radovich, T., **N.V. Hue** and A. Pant. 2011. Compost Quality. In *Tea Time in the Tropics*: A handbook for compost tea production and use. Radovich T.J.K. and Arancon N. (eds). ISBN: 978-1-929325-24-5. Publisher: College of Tropical Agriculture and Human Resources, University of Hawaii. pp 9-14.

7. Pant, A., T.J.K. Radovich, **N.V. Hue.** 2011. Compost Tea Production. In *Tea Time in the Tropics*: A handbook for compost tea production and use. Radovich T.J.K. and Arancon N. (eds). ISBN: 978-1-929325-24-5. Publisher: College of Tropical Agric. and Human Res., University of Hawaii. pp 19-24.

8. Pant, A., T.J.K. Radovich, **N.V. Hue**. 2011. Using Compost Tea to Increase Plant Growth and Quality. In *Tea Time in the Tropics*: A handbook for compost tea production and use. Radovich T.J.K. and Arancon N. (eds). ISBN: 978-1-929325-24-5. Publisher: College of Tropical Agriculture and Human Resources, University of Hawaii. pp 27-36.

9. Ortiz-Escobar, M.E. and **N.V. Hue**. 2007. Current developments in organic farming. pp. 29-62. In *Recent Research Developments in Soil Science.* Pandalai S. G. (ed.), vol. 2 (2007), India.

10. Miyasaka, S.C., **N.V. Hue**, and M. Dunn. 2006. Aluminum. In *Handbook of plant nutrition*. Barker A. and Pilbeam D. (eds.). CRC Press, Boca Raton, FL. pp. 439-497

11. Ortiz-Escobar, M.E., **N.V. Hue**, and W. Cutler. 2006. Recent developments on arsenic. In *Recent Research Developments in Bioenergetics*. Pandalai S.(ed.). Kerala, India. pp. 1-32.

12. Deenik, J .L. and **N. V. Hue**. 2004 (eds.). Integrating animal waste issues into nutrient management recommendations for Hawaii's soils. Coll. Tropical Agric. Human Resources, Univ. Hawaii; and the USDA, NRCS.

13. Kuo, S., M. Escobar, **N.V. Hue** and R. L. Hummel. 2004. Composting and compost utilization for agronomic and container crops. In *Recent Res. Devel. Environ*. Biol. Vol. 1. Kerala, India. pp. 451-513.

14. **Hue, N. V**. and J. A. Silva. 2000. Organic soil amendments for sustainable agriculture: In *Plant nutrient management in Hawaii's soils*. Silva J.A. and Uchida R. S. (eds) College of Tropical Agriculture and Human Resources, Univ. Hawaii at Manoa, pp. 133-144.

15. **Hue, N. V**., H. Ikawa, and X. Huang. 2000. Predicting soil phosphorus requirements. In *Plant nutrient management in Hawaii's soils*. Silva J.A. and Uchida R. S. (eds) College of Tropical Agriculture and Human Resources, Univ. Hawaii at Manoa, pp.95-99.

16. **Hue, N. V**., R. Uchida, and M.C. Ho. 2000. Sampling and analysis of soils and plant tissues. In *Plant nutrient management in Hawaii's soils*. Silva J.A. and Uchida R. S. (eds) College of Tropical Agriculture and Human Resources, Univ. Hawaii at Manoa, pp. 23-30.

17. Uchida, R. and **N. V. Hue**. 2000. Soil acidity and liming. In *Plant nutrient management in Hawaii's soils*. Silva J.A. and Uchida R. S. (eds) College of Tropical Agriculture and Human Resources, Univ. Hawaii at Manoa, pp.101-111.

18. Yost, R. S., Y. N. Tamimi, J. A. Silva, **N. V. Hue**, and C. I. Evensen. 2000. How fertilizer recommendations are made. In *Plant nutrient management in Hawaii's soils*. Silva J.A. and Uchida R. S. (eds) College of Tropical Agriculture and Human Resources, Univ. Hawaii at Manoa, pp.

19. **Hue, N. V**. 1995. Sewage sludge. In *Soil amendments and environmental quality*. Rechcigl J. E. (ed.). Lewis Publ., Boca Raton, FL. pp.199-247.

20. Fox, R. L., **N. V. Hue**, R. C. Jones, and R. S. Yost. 1991. Plant-soil interactions associated

with acid weathered soils. In *Plant-soil interactions at low pH*. Wright R. J., Baligar V. C. and Murmann R. P. (eds.) Kluwer Acad. Publ., Dordrecht, the Netherlands. pp. 197-204.

21. Oades, J.M., G. Gillman, G. Uehara, **N.V. Hue**, M. Van Noordwik, G.P. Robertson, and K. Wada. 1989. Interactions of soil organic matter and variable-charge clays. In *Dynamics of soil organic matter in tropical ecosystems*. Coleman, D.C., Oades, G. Uehara (eds). NifTAL Project, Univ. of Hawaii. pp.69-95.

22. Fox, R. L., and **N. V. Hue**. 1986. Sulfur cycling in the Tropics and sulfur requirements for agriculture. In *Sulphur in Agricultural Soils*. Proc. Int. Symp., April 20-22, 1986, Dacca, Bangladesh. Sam Portch and Sk. Gulam Hussain (eds). Bangladesh Agricultural Research Council and The Sulfur Institute. pp. 139-162.

23. **Hue, N. V**. and C. E. Evans. 1983. Procedures used by the Auburn University Soil Testing Laboratory. Dept. of Agronomy and Soils. Series no. 16. Alabama Agric. Exp. Sta. Auburn Univ. 31 pages.

Conference Proceedings

1. Ahmad, A. A., T. Radovich, **N.V. Hue**., J. Sugano, J. Uyeda, T. Silvasy, C. Gangaiah, and A. Berek. 2018. Innovative Waste Management Strategies: Utilizing Locally Produced By-Products as Organic Amendments for Crop Production in Hawaii. Our Farms, Our Future Conference. SA *REI*ATTRA. April 3-5, St. Louis, MO. USA.

2. Berek, A. K. and **N. V. Hue**. 2016. Liming potential of biochar. Asia Pacific Biochar Conference 2016 – A Shifting Paradigm towards Advanced Materials and Energy/Environment Research. Oct. 19-23, 2016. Gangwon, South Korea.

3. Radovich, T, A. Pant, J. Sugano, J. Uyeda, **N.V. Hue**, R. Paull, R. Nagata. 2014. Vermicompost and *Moringa o/eifera:* Examples of strategies to improve agricultural sustainability in the tropical Pacific. Special Seminar . June 6, 2014. The University of South Africa, Pretoria. South Africa.

4. Cadby, J., T. Radovich, R. Paull, **N. Hue**, A. Ahmad. 2014. The concentration of K from invasive seaweed (Eu cheuma spp.) when used as a soil amendment in a Hawaiian Oxisol. 29th International Horticultural Congress (IHC), Aug. 17-22. Brisbane, Australia.

5. **Hue, N.V**. 2010. Arsenic levels, chemistry and bioavailability in Hawaii soils. 19th. World congress of Soil Science. 1-6 August 2010, Brisbane, Australia.

6. Ortiz-Escobar, M. and **N.V. Hue**. 2010. Soil quality and vegetable growth as affected by organic amendments to a tropical Oxisol during transition to organic farming. 19th World congress of Soil Science, 1-6 August 2010, Brisbane, Australia.

7. Ortiz-Escobar, M. E. and **N. V. Hue**. 2007. Dynamics of some chemical properties in three manure-amended soils of Hawaii (in Portuguese) Proceedings of Brazilian Soil Sci. August 2007. Brazil.

8. **Hue, N.V**. 2000. Soil manganese dissolution and toxicity as affected by organic molecules and manure amendments. pp. 595-598. Proc. of intern. Humic subs. Soc. July 24 – 29, 2000. Toulouse, France.

Refereed Journal Publications

1. **Nguyen Hue**. 2024. Phosphorus nutrient in organic farming. A review. Modern Concept and Develop. In Agronomy. 13(4). https://doi.org/10.3131/MCDA.2024.13.000820.

2. Ahmad A., T. Radovich, J. Sugano, K. Wang. **N. Hue**, J. Uyeda, S. Wages, K. Tavares, E. Kirk, M. Kantar. 2024. Evaluating the yield of three legume crop varieties under Hawaii's micro-climates. Crops 4:242-255. https://doi.org/10.3390/crops4020018.

3. Zhang Randy, **Hue Nguyen**. 2024. Effects of magnetic fields on the vegetative growth of garlic (Allium sativum L.) cloves. Modern Concept and Develop. In Agronomy. 13(5). https://doi.org/10.3131/MCDA.2024.14.000848.

4. Nicholas Blenis, **Nguyen Hue**, Tai M. Maaz, Michael Kantar. 2023. Biochar production, modification, and its uses in soil remediation: A review. Sustainability. 15:3442. https://doi.org/10.3390.su15043442.

- 5. Huang R. and **Hue N**. 2022. In transition towards organic farming: effects of rock phosphate, coral lime, and green manure on soil fertility of an acid Oxisol and the growth of soybean (*Glycine max* L. Merr.) seedlings. Agriculture 2022,12,2045. https://doi.org/10.3390/agriculture12122045.

6. Cox J, **Hue NV**, Ahmad AA, Kobayashi KD. 2021. Surface applied or incorporated biochar and compost combination improves soil fertility, Chinese cabbage and papaya biomass. Biochar 3: 213-227.

7. Berek AK, **Hue NV**, Radovich TJK, Ahmad AA. 2018. Biochars improve nutrient phyto-availability of Hawaii's highly weathered soils. Agron 8:203-221.

8. **Hue Nguyen** and Amjad Ahmad. 2017. Arsenic Reactions and Brake Fern (*Pteris Vittata* L.) Uptake in Hawaiian Soils. Plant soil environ. 63:11-17. Doi:10.17221/428/2016-PSE.

9. Gangaiah C., A. Ahmad, **N. Hue**, H. Wang, T. Radovich. 2017. Evaluating three invasive algal species as local organic sources of potassium for pak choi (*Brassica rapa*) growth. HortSci. 52:436-440.

10. Gangaiah C., A. Ahmad, **N. Hue,** T. Radovich. 2016. A correlation of rapid cardy meter sap test and ICP spectrometry of dry tissue for measuring potassium (K+) concentrations in pak choi (Brassica rapa). Commun. Soil Sci. Plant Anal. 47:2046-2052.

11. Berek, AK and **NV Hue.** 2016. Characterization of biochars and their use as an amendment to acid soils. Soil Sci. 181:412-426.

12. Ahmad, A., T. Radovich, and **N. Hue**. 2015. Effect of intercropping three legume species on growth and yield of sweet corn (*Zea mays*) in Hawaii. J. of Crop Improvement. 29:370-378.

13. Berek, A. and **N. Hue**. 2015. Improving nutrient retention of highly weathered tropical soils with biochars. ICGAI proceedings, Yogyakarta, Indonesia, August 2-4. pp. 183-195.

14. Ahmad, A., **N. Hue**, and T. Radovich. 2014. Nitrogen release patterns of some locally made composts and their effects on the growth of Chinese cabbage (*Brassica rapa,* Chinensis group) when used as soil amendments. Compost Sci. & Utilization. 22:199-206.

15. Cutler W., A. El-Kadi, **N. Hue**, J. Pearl, C. Ray, and K. Scheckel. 2014. Iron amendments to reduce bioaccessible arsenic. J. Hazardous Materials. 270:554-561.

16. Ahmad, A., A. Fares, **N. Hue**, M. Safeeq, T. Radovich, F. Abas, and M. Ibrahim. 2014. Root distribution of sweet corn (*Zea mays*) as affected by manure types, rates and frequency of applications. The J. Animal & Plant Sci. 24:592-599.

17. **Hue, N.V**. 2013. Arsenic chemistry and remediation in Hawaiian soils. International J. Phytoremediation, vol. 15:105-116. DOI: 10.1080/15226514.683206 (published on line 21 May 2012).

18. Cutler, W., R. Brewer, A. El-Kadi, **N. V. Hue**, P. Niemeyer, J. Peard, and C. Ray. Bioaccessible arsenic in soils of former sugar cane plantations, island of Hawaii. 2013. Science of the total environment 442:177-188.

19. Pant, A**.,** T.J.K. Radovich, **N.V. Hue**, and R. E. Paull. 2012. Biochemical properties of compost tea associated with compost quality and effects on pak choi growth. Scientia Horticulturae 148:138-146.

20. Radovich, T.J.K., A. Pant **,** I. Gurr , **N.V. Hue** , J. Sugano , B. Sipes , N. Arancon , C. Tamaru, B. Fox, K. Kobayashi and R. Paull. 2012. Innovative use of locally produced inputs to improve plant growth, crop quality, and grower profitability in Hawai'i. HortTechnology 22:738-742.

21. Arancon, N.Q., A. Pant**,** T.J.K. Radovich, **N.V. Hue**, J. Potter, and C. Converse. 2012. Seed Germination and Seedling Growth of Tomato and Lettuce as Affected by Vermicompost Water Extracts (Teas). HortScience 47:1722-1728.

22. Pant, A., T.J.K. Radovich, **N.V. Hue**, and S. C. Miyasaka. 2012. Pak choi (*Brassica rapa*, Chinensis Group) yield, phytonutrient content, and soil biological properties as affected by vermicompost to water ratio used for extraction. HortSci.47:395-402.

23. Ahmad, A., Ali Fares, and **Nguyen V. Hue**. 2012. Nitrate dynamic in a tropical Mollisol amended with organic manures, planted with sweet corn, and monitored with SPAD readings. Commun. Soil Sci. Plant Anal.43, DOI: 10.1080/00103624.2012.701690.

24. Radovich**,** T**.** J.K.**,** A. Pant, I. Gurr**, N.V. Hue**, J. Sugano**,** B. Sipes, N. Arancon, C. Tamaru**,** B.K. Fox, K. D. Kobayashi, and R. Paull. 2012. Innovative use of locally produced inputs to improve plant growth**,** crop quality, and grower profitability in Hawaii. Horttechnology**,** 22(6): 738-742.

25. **Hue, N.V**. 2011. Alleviating soil acidity with crop residues. Soil Sci. 176:543-549.

26. Ortiz-Escobar, M. and **N.V. Hue**. 2011. Changes in soil properties and vegetable growth in preparation for organic farming in Hawaii. Commun. Soil Sci. Plant Anal. 42:2064-2072.

27. Pant, A., Radovich, T.J.K., **Hue, N.V**., Arancon, N.Q., 2011. Effects of Vermicompost Tea (Aqueous Extract) on Pak-choi Yield, Quality, and on Soil Biological Properties. Compost Sci Util, 19: 279-292

28. **Hue, N.V**. and R.L. Fox. 2010. Predicting plant-phosphorus requirements for Hawaii soils using a combination of P sorption isotherms and chemical extraction methods. Commun. Soil Sci. Plant Anal. 41:133-143.

29. **Hue, N.V**. 2009. Iron and phosphorus fertilizations and the development of proteoid roots in macadamia. Plant and Soil, DOI: 10.1007/s11104-008-9820-0, Vol. 318:93-100.

30. Pant, A.P., T.J.K. Radovich, **N.V. Hue**, S.T. Talcott, and K.A. Krenek. 2009. Vermicompost extracts influence growth, mineral nutrients, phytonutrients and antioxidant activity in Pak choi

(*Brassica rapa* cv. Bonsai, Chinensis group) grown under vermicompost and chemical fertilizer. J. Sci. Food and Agric. DOI 10.1002/jsfa.3732, vol. 89:2383-2392.

31. Ortiz-Escobar, M.E. and **N.V. Hue**. 2008. Temporal changes of selected chemical properties in three manure-amended soils of Hawaii. J. Bioresource Techn. 99:8649-8654.

32. **Hue, N.V**. 2008. Development, impacts and management of soil acidity in Hawaii. J. Hawaiian & Pacific Agric.vol. 15 (online http://www.uhh.hawaii.edu/academics/cafnrm/research/JournalofHawaiianandPacificAgriculture2008vol.15.php,).

33. **Hue, N.V**., G. Uehara, R.S. Yost, and M.E. Ortiz-Escobar. 2006. Distribution of Soil Orders in Hawaii. J. Hawaiian Pacific Agric. vol. 14: 17-28.

34. Fox, R.L., R.S. Yost, R.M. Caldwell, **N.V. Hue**, and C.W. Smith. 2006. Lichen sulfur contents as an indicator of crop sulfur: deficiency or luxury uptake. Commun. Soil Sci. Plant Anal. 37:13-24.

35. Leary, J.K., **N.V. Hue**, P.W. Singleton, and D. Borthakur. 2006. The major features of an infestation by the invasive weed legume gorse (*Ules europaeus*) on volcanic soils in Hawaii. Biol. Fert. Soils 42:215-223.

36. Cutler W., **Hue N**., and Ortiz-Escobar M.E. and Martin T. 2006. Approach to reduce bioaccessible arsenic in Hawaii soils. In: Proc. of 5 th. Int'l Conf. on Remediation of chlorinated and recalcitrant compounds. Monterey, CA, May 2006. Battelle Press.

37. Silva, J.A., R. Hamasaki, R. Paull, R. Ogoshi, D. Bartholomew, S. Fukuda, **N.V. Hue**, G. Uehara, and G. Tsuji. 2006. Lime, gypsum, and basaltic dust effects on the calcium nutrition and fruit quality of pineapple. Acta Hort. 702:123-131.

38. **Hue, N.V**., H.C. Bittenbender, and M.E. Ortiz-Escobar. 2005. Managing coffee processing water in Hawaii. J. Hawaiian Pacific Agric. 11-17.

39. Scowcroft, P., J. Haraguchi, and **N.V. Hue**. 2004. Reforestation and topography affect montane soil properties, N-pools, and N transformations in Hawaii. Soil Sci. Soc. Am. J. 68:959-968.

33. Hurchanik, D., D. P. Schmitt, **N. V. Hue**, and B. S. Sipes. 2004. Plant nutrient partitioning in coffee infected with *Meloidogyne konaensis*. J. Nematology, 36:76-84.

34. Porter, G., J. Bajista Locke, **N.V. Hue**, and D. Strand. 2004. Manganese solubility and phytotoxicity affected by soil moisture/O_2 levels and green manure additions. Commun. Soil Sci. Plant Anal. 35:99-116.

35. **Hue, N.V**., M. Serracin, D.P. Schmitt, and H.C. Bittenbender. 2004. Nutrient and nematode status of coffee and soils from orchards in Hawaii. Commun. Soil Sci. Plant Anal. Vol 35: 2023-2036.

36. **Hue, N. V**. 2004. Response of coffee (*Coffea Arabica* L.) seedlings to Ca and Zn amendments to two Hawaiian acid soils. J. Plant Nutr. 27:259-272.

37. Gleason, S.M., K.C. Ewel, and **N.V. Hue**. 2003. Soil redox conditions in a Micronesian mangrove forest: species-specific effects on rhizosphere characteristics. Estuarine, Coastal, and Shelf Sci. 56:1065-1074.

38. Hurchanik, D., D. P. Schmitt, **N. V. Hue**, and B. S. Sipes. 2003. Relationship of *Meloidogyne konaensis*

population densities to nutritional status of coffee roots and leaves. Nematropica. Vol. 33:55-64.

39. **Hue, N. V.**, S. Campbell, Q. X. Li, C. R. Lee, and J. Fong. 2002. Reducing salinity and organic contaminants in the Pearl Harbor dredged material using soil amendments and plants. Remediation J. Autumn issue:45-63.

40. **Hue, N. V**. and Y. Mai. 2002. Manganese toxicity in watermelon as affected by lime and compost amended to a Hawaiian soil. Hort Sci. 37:656-661.

41. Liu, J. and **N. V. Hue**. 2001. Amending subsoil acidity by surface applications of gypsum, lime, and composts. Commun. Soil Sci. Plant Anal. 32:2117-2132.

42. **Hue, N. V**., S. Vega, and J.A. Silva. 2001. Manganese toxicity in a Hawaiian Oxisol affected by soil pH and organic amendments. Soil Sci. Soc. Am. J. 65: 153-160.

43. Guo, F., R. S. Yost, **N.V. Hue**, C. Evensen, and J. Silva. 2000. Changes in phosphorus fractions in soils under intensive plant growth. Soil Sci. Soc. Am.J. 64:1681-1689.

44. **Hue, N. V**. and D. L. Licudine. 1999. Amelioration of subsoil acidity through surface application of organic manures. J. Environ. Qual. 28:623-632.

45. Van den Berghe, C. and **N. V. Hue**. 1999. Liming potential of composts applied to an acid Oxisol of Burundi. Compost science & Utilization. 7(2):40-46.

46. **Hue, N. V**. and B. A. Sobiesczyk. 1999. Nutritional values of some biowastes as soil amendments. Compost science & Utilization. 7(1):34-41.

47. Miyasaka, S., J. B. Million, **N. V. Hue**, and C. E. McCulloch. 1999. Boron requirement of "Sharwil" avocado trees. HortScience 34:886-890.

48. Bittenbender, H. C., **N. V. Hue**, K. Fleming, and H. Brown. 1998. Sustainability of organic fertilization of macadamia with macadamia husk-manure compost. Commun. Soil Sci. Plant Anal. 29:409-419.

49. Hunter, D. J., L. G. G. Yapa, and **N. V. Hue**. 1997. Effect of green manure and coral lime on corn growth and chemical properties of an acid Oxisol in Western Samoa. Biol. Fertil. Soils 24:266-273.

50. **Hue, N. V**., F. Guo, G. Zhang, R.S. Yost, and S.C. Miyasaka.1997. Reactions of copper sulfate with wetland-taro soils of Hawaii. Commun. Soil Sci. Plant Anal. 28:849-862.

51. Li, M., **N. V. Hue**, S. K. Hussain. 1997. Changes of metal forms by organic amendments to Hawaii soils. Commun. Soil Sci. Plant Anal. 28:381-394.

52. Liu, J. and **N. V. Hue.** 1996. Ameliorating subsoil acidity by surface application of calcium fulvates derived from common organic materials. Biol. Fertil. Soils 21:264-270.

53. **Hue, N. V**. and J. Liu. 1995. Predicting compost stability. Compost Sci. & Util. 3(2):8-15.

54. Hunter, D., L. G. G. Yapa, **N. V. Hue** and M. Eaqub. 1995. Comparative effects of green manure and lime on the growth of sweet corn (*Zea mays*), and chemical properties of an acid Oxisol in Western Samoa. Commun. Soil Sci. Plant Anal. 26:375-388.

55. **Hue, N. V**., H. Ikawa, and J. A. Silva. 1994. Increasing plant-available P in an Ultisol with a yardwaste compost. Commun. Soil Sci. Plant Anal. 25:3291-3303.

56. **Hue, N. V**., and S. A. Ranjith. 1994. Sewage sludges in Hawaii: chemical composition and reactions with soils and plants. Water, Air & Soil Pollut. 72:265-283.

57. Poolpipatana, S. and **N. V. Hue**. 1994. differential acidity tolerance of tropical legumes grown for green manure in acid sulfate soils. Plant Soil 163:131-137.

58. Bekker, A. W., **N. V. Hue**, and R. G. Chase. 1994. Effects of liming and leaching on K retention, nutrient uptake and dry matter production of maize grown on a Samoan Oxic Inceptisol. Fert. Res. 38:123-130.

59. Bekker, A. W., **N. V. Hue,** L. G. G. Yapa, and R. G. Chase. 1994. Peanut growth as affected by liming, Ca-Mn interactions, and Cu & Zn applications to acid Samoan soils. Plant Soil 164:203-211.

60. Mitchell, C. C., A. E. Hilbold, and **N. V. Hue.** 1994. Evaluation of a liquid potassium bicarbonate/amino acid by-product as a source of potassium, nitrogen and sulfur. J. Plant Nutr. 17:2119-2134.

61. Amien, I., R. S. Yost, and **N. V. Hue.** 1994. Peanut root growth and yield on lime treated acid soil of Sitiung, West Sumatra. Pembr. Pen. Tanah Dan Pupuk 12:58-70 (Indonesia).

62. Miyasaka, S. C., C. M. Webter, and **N. V. Hue**. 1993. Differential response of two taro cultivars to aluminum: I. Growth. Commun. Soil Sci. Plant Anal. 24:1197-1211.

63. Bekker, A. W., R. G. Chase, and **N. V. Hue.** 1993. Effects of coralline lime on nutrient uptake and yield of sweet corn and peanuts field-grown in Western Samoa. Fert. Res. 36:211-219.

64. Poolpipatana, S. and **N. V. Hue.** 1993. Aluminum phytotoxicity in acid tropical soils: a review. Science and Industrial Technology J. 1(5):21-24. (Thailand).

65. **Hue, N. V**. 1992. Correcting soil acidity of a highly weathered Ultisol with chicken manure and sewage sludge. Commun. Soil Sci. Plant Anal. 23:241-264.

66. **Hue, N. V**. 1992. "Liming" acid soils with green manures. Int. Ag-Sieve 4:6.

67. Wolt, J. D., **N. V. Hue**, and R. L. Fox. 1992. Solution sulfate chemistry in three sulfur-retentive Hydrandepts. Soil Sci. Soc. Am. J. 56:89-95.

68. Vega, S., M. Calisay, and **N. V. Hue**. 1992. Manganese toxicity in cowpea (*Vigna unguiculata*) as affected by soil pH and sewage sludge amendments. J. Plant Nutri. 15:219-232.

69. Van Steenwyk, K. Y. Kaneshiro, **N. V. Hue**, and T. S. Whittier. 1992. Rubidium as an internal physiological marker for mediterranean fruit fly (*Diptera:Tephritidae*). J. Econ. Entomol. 85:2357-2364.

70. **Hue, N. V.** 1991. Effects of organic acids/anions on P sorption and phytoavailability in soils with different mineralogies. Soil Sci. 152:463-471.

71. Fox, R. L., **N. V. Hue**, R. C. Jones, and R. S. Yost. 1991. Plant-soil interactions associated with acid weathered soils. Plant Soil 134:65-72.

72. Fox, R. L., R. S. Dela Pena, R. T. Gavenda, M. Habte, **N. V. Hue**, H. kawa, R. C. Jones, D. L. Plucnett, J. A. Silva, and P. Soltanpour. 1991. Amelioration, revegetation, and subsequent soil formation in denuded bauxitic materials. Allertonia 6:128-184.

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95. **Hue, N. V**., F. Adams, and C. E. Evans. 1984. Plant-available sulfur as measured by soil-solution sulfate and phosphate-extractable sulfate in an Ultisol. Agron. J. 76:726-730.

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98. Adams, F., C. Burmester, **N. V. Hue**, and F. L. Long. 1980. A comparison of column-displacement and centrifuge methods for obtaining soil solutions. Soil Sci. Soc. Am. J 44:733-735.

99. **Hue, N. V**., and Fred Adams. 1979. Indirect determination of micrograms of sulfate by barium absorption spectroscopy. Commun. Soil Sci. Plant Anal. 10:841-851.

Web-based Extension Publications

1. **Hue N.** 2024**.** Biofertilizers in sustainable farming**.** Hanai'Ai Newsletter, January-February-March 2024 issue.

2. Zhang Randy, **Hue Nguyen**. 2024. Effects of magnetic fields on the vegetative growth of garlic (Allium sativum L.) cloves. Hanai'Ai Newsletter, October-November-December 2024 issue.

- 3. Huang R. and **Hue N**. 2022. In transition towards organic farming: effects of rock phosphate, coral lime, and green manure on soil fertility of an acid Oxisol and the growth of soybean (Glycine max L.) seedlings. HanaiAi Newsletter, July-August-September 2022 issue.

4. Ahmad A. A., K. Tavares, **N. Hue**. 2019. Biochar Application to Leafy Green Varieties on Maui.

HanaiAi Newsletter.

5. Ahmad A., **N. Hue**, J. Silva, J. Uyeda, J.Sugano, T. J.K. Radovich, S. Motomura, and K.Tavares. 2019. Evaluating different varieties and biochar application rates on the yield of soybean. HanaiAi Newsletter.

6. Ahmad, A., T. Silvasy, S. Moore, C. Gangaiah, **N. Hue**, J. Uyeda, and T. Radovich. 2017. Improving Seedling Quality with Locally-Made Liquid Nutrient Solution. Hanai'AI newletter.

7. Ahmad A., T. Radovich, **N.V. Hue**, J. Uyeda, A. Arakaki, C. Nazario-Leary, J. Sugano, S. Motomura, and J. Silva. 2016. Evaluating the Suitability of Chickpea (*Cicer arietinum* L.) as a New Legume Crop to the Tropical Condition of Hawaii. Hanai'Ai Newsletter.

8. Radovich, T., A. Ahmad, A. Arakaki, J. Sugano, J. Uyeda, and **N. Hue**. 2015. Tankage: A Locally Produced Nitrogen Input for Sustainable Agriculture. Hanai'Ai Newsletter.

9. Ahmad A., T. Radovich, and **N.V. Hue**. 2014. Effect of Intercropping Three Legume Species on Early Growth of Sweet Corn (Zea mays). Hanai'Ai Newsletter.

10. Amjad Ahmad, Theodore J.K. Radovich, **N. V. Hue**, and Alton Arakaki. 2014. Producing High Nitrogen Liquid Fertilizer for Fertigation Purposes. Hanai'Ai newsletter.

11. Ahmad, A., T. Radovich, **N.V. Hue**, and L.J. Cox. 2013. Hawaii's Locally Produced Composts: Nitrogen Release and Effects on Pak Choi Growth. Hanai'Ai.Newsletter.

12. Pant, A.P., **N.V. Hue**, J. Uyeda, J. Sugano, and T. Radovich. 2013. investigating the Probable Cause of Crop Decline in Central O'ahu. Hanai' Ai Newsletter.

13. Ahmad, A., A. Fares, T. Radovich, and **N.V. Hue**. 2012. Using Manures to Improve Sweet Corn Biomass and its Nutrient Content. Hanai'Ai Newsletter.

14. **Hue, N.V.** 2011. Composting: Some basic requirements. Hanai'Ai Newsletter.

15. **Hue, N.V.** 2011. Changes in soil properties and vegetable growth/quality during the transition toward organic farming in Hawaii. Hanai'Ai Newsletter.

16. Berek, A.K., **N.V. Hue**, A. Ahmad. 2011. Beneficial use of biochar to correct soil acidity. Hanai'Ai Newsletter.

17. Ahmad, A., A. Fares, **N. Hue**. 2011. Nitrogen synchronization from organic manure applications as measured from soil solution and SPRAD readings for growing sweet corn. Hanai'Ai Newsletter.

18. **Radovich, T., N.V. Hue**, A. Pant and N. Arancon. 2011. Promoting Plant Growth with Compost Teas. Hanai'Ai newsletter.

19. Radovich, T., and **N.V. Hue**. 2010. Evaluating Limu Compost as a Soil Amendment. Hanai'Ai newsletter.

Peer-reviewed Extension Publications:

1. Pant, A., Radovich T., Wang K.-H., **Hue** N., Fergerstrom, M., Hamasaki R., Robb C. 2014. Performance and Plant-Available Nitrogen (PAN) Contribution of Cover Crops in High Elevations in Hawai 'i. CTAHR Publication. http://www.ctahr.hawaii.edu/oc/freepubs/pdf/SA-IS.pdf.

2. **Hue, N.V**., Silva J., Uehara G., Hamasaki R., Uchida R., Bunn P. 1998. Managing manganese toxicity in former sugarcane soils on Oahu. Soil and crop management, CTAHR, SCM-1.

3. **Hue, N.V**., Ikawa H., Huang X. 1994. Predicting phosphorus requirements of some Hawaiian Soils. Depart. Agonomy and Soils. CTAHR, Fact sheet No. 2.

Creative Works (i.e., Extension Videos, Websites, Blogs, Creative Designs and Exhibitions, etc.)

Leadership Roles (Committees, Boards, Advisory, etc.)

Member of the organizing committee for the 4th International Conference on Environmental Pollution, Restoration, and Management. Will be held in Quy Nhon, Vietnam, on March 4-6, 2024.

Graduate Students

Category	Current Number of Students	Number Graduated (Career)
Chair of Master's Committees	0	9
Chair of PhD Committees	1	5
Member of Master's Committees	1	15
Member of PhD Committees	0	16

Grant Support

1. Title of grant: Increasing the consumption of Hawaii fruits and vegetables to promote nutrition.
Source of Grant: Hawaii Department of Agriculture.
Dollar Value: $200,000
Dates of Grant: 04-1-2024 to 12-31-2025
Role: (PI, CoPI, other): CoPI

2. Title of grant: Revitalizing soil health and crop productivity with biochar produced from invasive species.
Source of Grant: NRCS-CIG-PIA.
Dollar Value: $149,961
Dates of Grant: 11-1-2023 to 9-31-2026
Role: (PI, CoPI, other): CoPI

3.Title of Grant: Improving Nitrogen Synchronization of Local Fertilizers, Soil Fertility, and Crop Quality

with Biochar Application.
Source of Grant: Western SARE
Dollar Value: $259,816
Dates of Grant: 04-1-2016 to 12-31-2019
Role: (PI, CoPI, other): PI

4.Title of Grant: Evaluating suitability of Chickpea (*Cicer arietinum* L.) as a new legume crop to the tropical condition of Hawaii.
Source of Grant: Hawaii Department of Agriculture.
Dollar Value: $50,000
Dates of Grant: 7-1-2015 to 6-30-2017
Role: (PI, CoPI, other): Co-PI

5.Title of Grant: Evaluating Mechanical Harvest and Agronomical Treatments to Improve Legume Crops Growth and Yield in Hawaii.
Source of Grant: Hawaii Department of Agriculture.
Dollar Value: $40,000
Dates of Grant: 7-1-2018 to 6-30-2020
Role: (PI, CoPI, other): Co-PI

6.Title of Grant: Selecting Pigeon Pea and Green Bean Varieties for Market Preference, Value-added Products, and Other Benefits.
Dollar Value: $40,000
Dates of Grant: 7-1-2019 to 6-30-2021
Role: (PI, CoPI, other): Co-PI

7.Title of Grant: Promoting the use of cover crop calculator for the Tropics as nitrogen management tool and the use of cover crops for soil health management guideline.
Source of Grant: Hawaii Department of Agriculture.
Source of Grant: NRCS/USDA.
Dollar Value: $474,020
Dates of Grant: 7-1-2014 to 6-30-2019
Role: (PI, CoPI, other): Co-PI

8.Title of Grant: A pre-feasibility study on composting animal waste using the aerated compost system and its utilization as a soil fertilizer in Ho Chi Minh City, Vietnam.
Source of Grant: International Foundation for Science, EU.
Dollar Value: $12,001
Dates of Grant: 9-1-2018 to 8-31-2020
Role: (PI, CoPI, other): Co-PI

9.Title of Grant: Conserving nitrogen (N) content of Hawaii's organic fertilizers and improving N synchronization, soil quality and crop production with biochars.
Source of Grant: Hatch supplemental
Dollar Value: $72,000

Dates of Grant: 10-1-2016 to 9-30-2018
Role: (PI, CoPI, other): PI

10.Title of Grant: Promoting the use of cover crop calculator for the Tropics as nitrogen management tool and the use of cover crops for soil health management guideline.
Source of Grant: NRCS/USDA
Dollar Value: $474,020
Dates of Grant: 10-1-2015 to 9-30-2019
Role: (PI, CoPI, other): Co-PI

11.Title of Grant: High nutrient solution fertilizers derived from local organic inputs for field and green-house application in the tropics.
Source of Grant: Western SARE
Dollar Value: $170,466
Dates of Grant: 7-1-2014 to 6-30-2016
Role: (PI, CoPI, other): Co-PI

12.Title of Grant: Improving soil productivity with composts and biochars.
Source of Grant: Hatch supplemental
Dollar Value: $76,145
Dates of Grant: 10-1-2014 to 9-30-2016
Role: (PI, CoPI, other): PI

13.Title of Grant: Cover crops, nitrogen calculation.
Source of Grant: Hatch supplemental
Dollar Value: $43,255
Dates of Grant: 10-1-2014 to 9-30-2015
Role: (PI, CoPI, other): Co-PI

14.Title of Grant: Reducing Pacific Island growers' reliance on off-island fertilizer sources through improved awareness and efficient use of local inputs
Source of Grant: Western SARE
Dollar Value: $284,580
Dates of Grant: 7-1-2012 to 4-30-2015
Role: (PI, CoPI, other): Co-PI

Presentations at Conferences

1. Title: Soil health improvement with biochar: a review.
Authors: Hue Nguyen
Name of Conference: 4th. Intern. Conf. on Environmental pollution, restoration, and management.
Date of Presentation: March 3-7, 2024. QuyNhon, Vietnam

2. Title: University of Hawaii: a learning place in the middle Pacific.
Authors: Hue Nguyen

Name of Conference: 4th. Intern. Conf. on Environmental pollution, restoration, and management.
Date of Presentation: March 3-7, 2024. QuyNhon, Vietnam

3. Title: The effect of biochar application on soil health and legume crop's growth and yield in Hawaii.

Authors: A. Ahmad*, **N. Hue**, T.J.K. Radovich, K. Wang, J. Sugano, J. Uyeda, S. Motomura, J. Silva, and K. Wong
Name of Conference: American Soc. Hort. Sci.
Date of Presentation: July 30- August 4, 2019. Las Vegas NV.

4. Title: Biochar as a soil amendment and nutrient regulator.

Authors : A. Ahmad, A. Berek, T. Radovich, **N. Hue***
Name of Conference: American Soc. Hort. Sci.
Date of Presentation July 31- August 4, 2018.Washington DC.

5. Title: Surface applied or incorporated? Does compost and biochar placement affect plant growth and soil fertility?

Authors (put an asterisk on the presenter): A. Cox*, **N. Hue**, A. Ahmad, K. Kobayashi
Name of Conference: CTAHR Student Research Symposium
Date of Presentation: April 13-14, 2018. UHM, Honolulu, HI.

6. Title: Arsenic reactions and remediation in Tropical soils.

Authors (put an asterisk on the presenter): **N. Hue***
Name of Conference: The 3rd. Intern. Conf. on Environmental Pollution, Restoration, and Management
Date of Presentation: March 6-10, 2017. Quy Nhon, Vietnam.

7. Title: Optimizing local, organic compliant fertilizers for vegetable production in a crowded island environment.

Authors (put an asterisk on the presenter): T. Radovich*, A. Ahmad, **N. Hue**, K. Wang, T. Silvasy, J. Uyeda, J. Sugano, I. Gurr, C. Gangiah and R. Paull.
Name of Conference: American Soc. Hort. Sci.
Date of Presentation : Sept. 19-22, 2017. Waikoloa, HI.

8. Title: Potassium Availability from Three Invasive Algae Species in a Pak Choi Model Crop.

Authors (put an asterisk on the presenter): C. Gangaiah*, T.J.K. Radovich, **N. Hue**, A. Ahmad
Name of Conference: CTAHR Student Research Symposium
Date of Presentation: April 8-9, 2016. UHM, Honolulu, HI.

9. Title: Use of Biochar and Compost Improves the Productivity of Nutrient-poor Tropical Soils.

Authors (put an asterisk on the presenter): A. Berek , **N. Hue***, A. Ahmad
Name of Conference: American Soc. Hort. Sci.
Date of Presentation: Aug. 4-7, 2015. New Orleans, LA.

10. Title: Enhancing Nitrogen Availability in Liquid Fertilizers Derived from Solid Organic Sources for Fertigation.

Authors (put an asterisk on the presenter): A. Ahmad*, **N. Hue**, T.J.K. Radovich
Name of Conference: American Soc. Hort. Sci.
Date of Presentation: Aug. 4-7, 2015. New Orleans, LA.

Title: Use of Invasive Algae as a Potassium (K) Source Affects Growth and K Content in Pak Choi (Brassica rapa cv. Bonsai, Chinensis Group) under Greenhouse Conditions.
Authors (put an asterisk on the presenter): A. Ahmad*, **N. Hue**, T.J.K. Radovich
Name of Conference: American Soc. Hort. Sci.
Date of Presentation: Aug. 4-7, 2015. New Orleans, LA.

11. Title: The concentration of K from invasive seaweed (Eucheuma spp.) when used as a soil amendment in a Hawaiian Oxisol.

Authors (put an asterisk on the presenter): J. Cadby*, T. Radovich, R. Paull, **N. Hue**, A. Ahmad
Name of Conference: 29th International Horticultural Congress (IHC)
Date of Presentation: Aug. 17-22, 2014. Brisbane, Australia

12. Title: The concentration of K from invasive seaweed (Eucheuma spp.) when used as a soil amendment in two Hawaiian Soils.

Authors (put an asterisk on the presenter): J. Cadby*, T. Radovich, R. Paull, **N. Hue**, A. Ahmad
Name of Conference: CTAHR Student Research Symposium
Date of Presentation: Apr. 11-12, 2014. UHM, Honolulu, HI.