

Curriculum Vitae

Isaac Kwadwo Mpanga (PhD Dissertation submitted)

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Summary

A dedicated Soil and Plant Sciences specialist with excellent experiences in research, teaching pedagogy and farming.

Education

04 - 2016 - Present	Crop Sciences (PhD Candidate) Institute of Crop Sciences (340h) University of Hohenheim, Germany Dissertation: Fertilization Strategies to Improve the Plant Growth-Promoting Potential of Microbial Bio-Effectors.
10 - 2013 TO 12 - 2015	Crop sciences (MSc) (GPA 3.85 out of 4.0) Institute of Crop Sciences (340h) University of Hohenheim, Germany
08 - 2008 TO 07 - 2012	Agriculture EDU. (BSc) (GPA 3.45 out of 4.0) College of Agriculture The University of Edu. Winneba, Ghana

Work experience

04 – 2016 - Present	Research Fellow at University of Hohenheim, Germany <ul style="list-style-type: none">• Crop and Soil Sciences field research with farmers and industries collaboration• Data analysis, results interpretation and reporting• Scientific manuscripts writing and publication• Scientific conferences attendance and presentations• Research Proposals writing for external funding.• Master student supervision and mentorship• International Collaboration with project partners, Faculty and other Scientist for networking
01 - 2016 to 03 - 2016 11 - 2017 to 02 - 2017	Teaching Internship and Research Stay at University of Energy and Natural Resources, Ghana <ul style="list-style-type: none">• Planned, taught, supervised and assessed undergraduate students• Conducted experiments in greenhouse and lab• Report writing and accounting
09 - 2003 to 08 - 2013	Teacher at Ghana Education Service, Ghana <ul style="list-style-type: none">• Taught and managed students at all levels• Examined and assessed student performance• Planned and Supervised all extra curriculum activities

06 - 2011 to 12 - 2011

Extension at Ghana Cocoa board, Ghana

- Planned and implemented Extension programs at the regional and district levels.
- Compiled regional cocoa data for grading activities
- Regional Storekeeper

Taught Courses:

- Integrated Sciences (2011-2013) at the high school level
- General Agriculture (2011-2013) at the high school level
- Fundamentals of Horticulture (2016 and 2017) at the bachelor's degree level

Awards

- Field research fund. Awarded by FIAT PANIS through Food Security Centre, University of Hohenheim, Germany
- Free membership to International Fertilizer Society

Selected Publications

- **Mpanga K. Isaac** (2019): Fertilization Strategies to Improve the Plant Growth-Promoting Potential of Microbial Bio-Effectors. *Dissertation, University of Hohenheim, Stuttgart, Germany* (submitted).
- **Mpanga I K**, Gomez N, Moradtalab N, Ahmed A, Geistlinger J, Wanke D, Walker F, Windisch S., Chrobaczek V, Ludewig U, Neumann G, (2019): The Role of N form Supply on PGPM-host Plant Interaction in Maize. *Journal of Plant Nutrition and Soil Sciences* (submitted).
- **Mpanga I K**, Nkebiwe PM, Kuhlmann M, Cozzolino V, Piccolo A, Geistlinger J, Berger N, Ludewig U, Neumann G, (2019). The form of N supply determines plant growth promotion by P-solubilizing microorganisms in maize. *Microorganisms* 7(2), 38.
- **Mpanga, I K**, Dapaah H K, Geistlinger J, Ludewig U, and Neumann G, (2018). Soil type-dependent interactions of P-solubilizing microorganisms with organic and inorganic fertilizers mediate plant growth promotion in tomato. *Agronomy*, 8(10), 213.

Selected conference presentations

- **Mpanga, I.K.** (2018). Ammonium-induced plant growth-promoting potential of microbial bio-effectors. Tropical Plant and Soil Sciences Departmental Seminar Spring 2018, University of Hawaii, USA.
- **Mpanga, I.K.** (2018). Adapted fertilization strategies as a tool for efficient use of microbial inoculants for plant growth-promotion. 5th World Congress on Microbial Biotechnology. Lisbon, Portugal.
- **Mpanga, I.K.** (2018). Integrated Plant Nutrient management-potentials of microbial bio-effectors. Institute of Food and Agriculture Sciences, Horticultural Sc. Department, online special seminar, University of Florida, USA.
- **Mpanga, I.K.** (2017). Benefits of Ammonium Fertilization for Plant-PGPM Interactions. *Annual Conference series on Microbes and Beneficial Microbes 2017. Baltimore, USA.*

Referees:

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