

## CURRICULUM VITAE



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### Education

1. PhD, 2017, Wageningen University and Research, The Netherlands
2. MSc. Agricultural and Bioresource Engineering 2009, Wageningen University and Research, The Netherlands
3. Bachelor of Biological and Agricultural Engineering, 2006, Universiti Putra Malaysia, Malaysia

### Areas of Interest

1. Modeling and simulation of agricultural systems (i.e., crop growth development and production, climate change, production cost, fertilizer loss, gas emission)

### Professional Qualification/ Membership/ Affiliation

1. EXCO, Malaysian Society of Agricultural Engineers (MSAE, 2017-2019)
2. Member, Malaysian Society of Agricultural Engineers (MSAE)
3. Graduate Member, Board of Engineers Malaysia (BEM)

### Appointments

Position	Duration
1. Research Coordinator, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	2017 to present

### Publications

#### Journals

1. **K., Nurulhuda**, D.S., Gaydon, Q., Jing, M.P. Zakaria, P.C., Struik, and K.J., Keesman (2018). Nitrogen dynamics in flooded soil systems: An overview on concepts and performance of models. *Journal of the Science of Food and Agriculture*, 98, pp. 865-871 (Q1, IF= 2.379)
2. **K., Nurulhuda**, P.C., Struik, and K.J., Keesman (2017). Set-membership estimation from poor quality data sets: Modelling of ammonia volatilisation in flooded rice systems. *Environmental Modelling & Software*, 88, pp. 138-150 (Q1, IF=4.177)

#### Conference Proceedings

1. **K., Nurulhuda**, P.C., Struik, and K.J., Keesman (2015). Set-membership identification of an agro-ecosystem from a small data set: The case of ammonia volatilisation in a flooded rice field. *IFAC-PapersOnLine*, 48(1), pp. 580-585. (This paper was presented at 8<sup>th</sup> Vienna International Conference on Mathematical Modelling)
2. **N., Khairudin**, P.C., Struik, and K.J., Keesman (2014). Modelling of ammonia volatilisation in flooded rice fields: The modified Jayaweera-Mikkelsen model. *In: C.M.d.S., Cordovil (Ed.). Proceedings of the 18<sup>th</sup> Nitrogen Workshop – The Nitrogen Challenge: Building a Blueprint for Nitrogen Use Efficiency and Food Security*. 30 June – 3 July, 2014, Lisboa, pp. 447
3. **N., Khairudin** and K.J., Keesman. Linear regression techniques for state-space models with application to biomedical/Biochemical example, 6<sup>th</sup> Mathmod, Vienna, Austria, 11<sup>th</sup>–13<sup>th</sup> February 2009
4. K.J., Keesman (*presenter*) and **N., Khairudin**. Linear regressive realization of LTI state-space models, 15<sup>th</sup> IFAC Symposium on System Identification, Saint-Malo France, 6<sup>th</sup> – 8<sup>th</sup> July 2009

**Book**

1. K., Nurulhuda (2017). Modelling of Ammonia Volatilization in Fertilised and Flooded Rice Systems. PhD thesis. Wageningen University. ISBN: 978-94-6257-669-8, DOI: 10.18174/402053

**Chapter in Books**

None.

**Research Grants**

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Evaluation of a Crop Growth and Development Model for Scenario Studies of Rice Grain Production	57,550	2017-2019	Putra Grant-IPM

**Awards/Recognition (Current)**

Num	Name of awards	Title	Award Authority	Award Type	Year
None.					

**Professional Services/Consultation**

No	Year	Title	Authority	Amount
None.				

**Student Supervision**
**MS with thesis (Main Supervisor)**

No.	Name	Title	Status
1.	Muhamad Faiz bin Che Hashim (GS49741)	Evaluation of a rice crop growth model: A case study at IADA KETARA	Ongoing

**MS with thesis (Co-Supervisor)**

No.	Name	Title	Status
1.	Siti Najja binti Mohd. Zad (GS50165)	Assessing satellite-based rainfall (SBR) products for improved model prediction of rice yield	Ongoing

**MS without Thesis (Co-supervisor)**

No.	Name	Title	Status
1.	Siti Syahirah binti Abdullah (GS49985)	Growth and Aflatoxin Production by <i>Aspergillus flavus</i> and <i>Aspergillus parasiticus</i> during storage of corn-based poultry feed.	Ongoing

**PhD (Co-supervisor)**

No.	Name	Title	Status
1.	Nurfarhana binti Abd. Raffar (GS51836)	Quantifying threats to food (rice) security in Malaysia under climate change and mitigation using weather-based risk approach	Ongoing
2.	Asniyani Nur Haidar Abdullah (GS51015)	Evaluation of rice growth parameters as effected by cultivars and nitrogen treatments by using UAV platform	Ongoing