

CURRICULUM VITAE

Name CHAIYA JANTRA

Address 165/5 Moo 4 Tumbon Dontako, Amphur Muang, Ratchaburi 70000, Thailand.

E-mail address chaiya_jantra@hotmail.com
chaiyajantra@gmail.com

EDUCATION

- 2010 B.Eng. (Agricultural Engineering) with First Class Honours, Kasetsart University, Thailand
- 2019 D.Eng. (Agricultural Engineering), Kasetsart University, Thailand

WORKING EXPERIENCE

- 2010-2014 A graduate student in Department of Agricultural Engineering, Kasetsart University, Kamphengsean Campus, Thailand. Research focus on design and fabrication of a young coconut trimming machine using an oscillating knife.
- 2014-2015 A visiting scholar in Slaughter Lab, Biological and Agricultural Engineering, UC Davis.
- Determine dry matter and soluble solids contents in onion and garlic using a handheld visible and near infrared instrument.
 - Design and fabricate a portable penetrometer with high precision.
- 2015-2019 A graduate student in Department of Agricultural Engineering, Kasetsart University, Kamphengsean Campus, Thailand.
- Analyze data to determine the best model for prediction of dry matter and soluble solids contents in onion and garlic.
 - Develop and fabricate a handheld penetrometer with high precision and light weight.

- Fabricate a young coconut trimming machine to determine cutting force by attaching force sensor on oscillating knives during peeling a young coconut to get the optimum condition for peeling with the best quality of trimmed coconut.

2019-present A lecturer at Department of Agricultural Engineering, Faculty of Engineering, Kasetsart University, Kamphengsean Campus.

COMPUTER SKILLS

Software: SolidWorks, AutoCad, SPSS, Unscramble, Microsoft Office, MathLab, C++.

Research expertise & Interest

Expertise and interest in design and development of post-harvest machine and instrument, and nondestructive determination or post-harvest technology for fruit and vegetable such as fruit firmness tester, coconut trimming machine and quality determination of onion and garlic using handheld spectrometer.

PUBLICATIONS

Siwalak Pathaveerat, Chatchai Tippayarat, **Chaiya Jantra**. 2013. Design and Development of a Young Coconut Trimming Machine Using Reciprocating Knife. Thai Society of Agricultural Engineering Journal. 9(1), No. 1, 38-42.

Jantra, C., Pathaveerat, S., Slaughter, D., 2017. Development of Portable Precision Fruit Firmness Measurement Instrument. Thai Society of Agricultural Engineering Journal. 23(1), 8-15.

Jantra, C., Slaughter, D.C., Liang, P.-S., Pathaveerat, S., 2017. Nondestructive determination of dry matter and soluble solids content in dehydrator onions and garlic using a handheld visible and near infrared instrument. Postharvest Biology and Technology. 133, 98–103.

Jantra, C., Slaughter, D., Roach, J., Pathaveerat, S., 2018. Development of a handheld precision penetrometer system for fruit firmness measurement. *Postharvest Biology and Technology*. 144, 1-8.

Jantra, C., Pathaveerat, S., 2019. Testing of Optimal Condition for a Young Coconut Peeling Machine with Oscillating Knives. *Thai Society of Agricultural Engineering Journal*. 25(2), 28-35.

PRESENTATIONS

Oral Presentation at RGJ - Ph.D. Congress 17, June 8-11, 2016, Jomtien Palm Beach Hotel & Resort, Pattaya, Chonburi, Thailand

Portable Precision Firmness Measurement System for Papayas.

Chaiya Jantra, Siwalak Pathaveerat, David C. Slaughter.