



## Dr. Pinpinatt Junhaeng

**Nationality:** Thai **Date of birth:** 30 Jan 1981 **Gender:** Female

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**Self-introduction:** [https://drive.google.com/file/d/1iAQ2ugRliEkmSzKbZapqGf7p0\\_a6wdyk/view?usp=drive\\_link](https://drive.google.com/file/d/1iAQ2ugRliEkmSzKbZapqGf7p0_a6wdyk/view?usp=drive_link)

**Home:** 44/5 Moo.11 Buakkang, Sunkumphaeng district Chiangmai, 50130  
Chiangmai (Thailand)

### ABOUT MYSELF

Scientist | Seed physiologist | Data Analysis

Explore for seed production related to food nutrient, data science, and/or bioenergy crop.

The new challenges will bridge me to be a university's professor, and/or entrepreneur.

You can see my background from the following details.

### WORK EXPERIENCE

#### Career Break

[ 1 Nov 2023 - Current ]

Health and well-being

#### Production Research Scientist

**Bayer Crop Science Vegetable Seed** [ 2 May 2019 - 31 Oct 2023 ]

**City:** Khon Kaen | **Country:** Thailand | **Website:** [www.bayer.com](http://www.bayer.com) | **Name of unit/department:** Production Research

- Independently leads local Production Research efforts aligned with Global Vegetable Seed Production objectives as defined and prioritized by Production Strategy, Production Research, and Local management teams.
- Maintains regional and global connections with peers, relevant Crop Specialists as well as with regional representatives in Production, MEX and Quality.
- Validates new technologies under local conditions to improve seed quality, yield and reduce cost.
- Participates in the local and regional Production Research management team.
- Solves seed production and/or seed technology problems while exhibiting judgment and a realistic understanding of issues.
- Supports regional teams with implementation of new technologies.
- Combines result-oriented leadership with initiative and foresight leading to proactive data driven support and decisions.
- Uses statistical analysis to solve problems.

#### Research Assistant

**Royal Project Foundation** [ 1 Jun 2013 - 31 Dec 2018 ]

**City:** Chiangmai | **Country:** Thailand | **Website:** <https://royalproject.org/>

- Team member of 'The possibility of quinoa production in Thailand' project under Kasetsart University, Chile Embassy in Thailand, and Royal Project Foundation.
- Data analysis, report preparation, mentoring for Master students, administration, and accountancies.



### Seed production manager

**AFM-Ameriseed Group** [ 1 Aug 2014 – 30 Sep 2016 ]

City: Chiangmai | Country: Thailand | Website: [www.ameriseed.net](http://www.ameriseed.net)

- Involved with management team in entire seed production process, worked in germplasm preservation with breeder, worked and communicated with domestic and international production team to produced 1,000 kg per year of *Tagestes erecta* seeds, 10 varieties all year round, communicated with import team to import the seeds to Thailand, responsible for the seeds drying, sorting, upgrading, and treatment. subsequently submit the final product to inventory team.

### Research and Development

**AFM-Ameriseed Group** [ 1 Jan 2010 – 30 Sep 2012 ]

City: Chiangmai | Country: Thailand | Website: [www.ameriseed.net](http://www.ameriseed.net)

- Research on seed disinfection, seed de-tailing, seed coating, seed priming, genetic purity verification by DNA fingerprint, PGRs application on marigold seed to control stretching at plug stage, pollen storage by freeze dry.

### Seed Quality Controller

**AFM-Ameriseed Group** [ 2 May 2008 – 31 Dec 2009 ]

City: Chiangmai | Country: Thailand | Website: [www.ameriseed.net](http://www.ameriseed.net)

- Implementation seed quality assurance procedure, standard seed testing laboratory, seed processing plant, and team building.
- Delivered the seed quality test results such as seed germination, fungi infection, vigour, and plant grow out test.
- Worked for seed drying by drying beads.
- Worked for pollen viability test.
- Report to management team, domestic and international sale team, and inventory team.

### Research Assistant

**Postharvest Technology Innovation Center** [ 2 May 2006 – 30 Apr 2008 ]

City: Chiangmai | Country: Thailand | Website: <https://www.phtnet.org/>

- Assistant in project of “Food Safety”, “Synthetic seed”, and “Electromagnetic Application for Agriculture Product”.
- Data collection and data analysis, and report to team.

## EDUCATION AND TRAINING

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### ISO 9001:2015 Requirements & Internal Audit

**Monsanto Thailand Ltd., trainer is ido CONSULTING CO.,LTD.** [ 6 May 2021 – 7 May 2021 ]

### ISO 45001:2018 Requirements & Internal Audit

**Monsanto Thailand Ltd., trainer is ido CONSULTING CO.,LTD.** [ 1 Jul 2020 – 22 Jul 2020 ]

### Doctor of Philosophy (Agronomy)

**Kasetsart University** [ 5 Nov 2012 – 16 Jan 2019 ]

### Master of Science (Postharvest Technology)

**Chiang Mai University** [ 2 Jun 2003 – 13 Jul 2007 ]

### Bachelor of Science (Agriculture)

**Chiang Mai University** [ 30 May 1999 – 3 Mar 2003 ]



## LANGUAGE SKILLS

**Mother tongue(s):** Thai

**Other language(s):**

### English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

### German






LISTENING A2 READING A2 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

## DIGITAL SKILLS

### Digital Skills - Test Results

	Information and data literacy	<b>INTERMEDIATE</b>	Level 3 / 6
	Communication and collaboration	<b>INTERMEDIATE</b>	Level 3 / 6
	Digital content creation	<b>FOUNDATION</b>	Level 2 / 6
	Safety	<b>INTERMEDIATE</b>	Level 4 / 6
	Problem solving	<b>INTERMEDIATE</b>	Level 3 / 6

Results from a [self-assessment](#) based on [The Digital Competence Framework 2.1](#)

## COMMUNICATION AND INTERPERSONAL SKILLS

**Presentation** gained through my seed production manager experience, research assistant, and best award of oral scientific and technical presentation

**Argument** gained through my responsible for scientist

**empathy** gained through my responsible for scientist

**Direct and Optimistic**

## CONFERENCES & SEMINARS

[ 2019 – 2023 ] Microsoft Teams

**Phase Advancement movement**

[ 2019 – 2023 ] Microsoft Teams

**Project execution**

[ 2020 – 2023 ] Microsoft Teams

**Cucurbits Ambassador**

[ 2020 ] Microsoft Teams



## Discovery Day

Hotel Bangi-Putrajaya, Malaysia

**7th International Agriculture Congress 2016 "Enhancing Green Agriculture"** Proceeding of "The Improvement of Barley Seed Quality by Priming Methods in Malt Industry." **Junhaeng, P., P., Thobunluepop, W., Chanprasert, and S., Nakasathien.** 2016.

King Mongkut's University of Technology Thonburi (KMUTT), Bangkok, Thailand.

**The Conference of Center for Research and Development of Tropical and Sub-Tropical Crops 9th** Proceeding of "Application of Gibberellins treatment with Low Temperature Seed Priming Technique on Barley Seed Germination and Vigor." **Junhaeng, P., P., Thobunluepop, W., Chanprasert, and S., Nakasathien.** 2015.

University of the Thai Chamber of Commerce 8th, Bangkok, Thailand

**The Conference of Center for Research and Development of Tropical and Sub-Tropical Crops** Presentation representative for "Effect of Harvesting Time and Nitrogen Levels on Yield and Seed Quality of Quinoa 2 Cultivars." **Kansomjet, P., P. Thobunluepop, N. Tonmukayakul, P. Boonkorkaew, P. Junhaeng, P. Kaewsuwan, P. Fungfoo, N. Pipattanawong and Iván M.T.** 2014.

The Imperial Mae Ping Hotel Chiangmai, Thailand.

**12th National Postharvest Technology Conferences** Proceeding of "Barley Seed Quality and Storability Changed after Various Seed Priming Techniques." **Junhaeng, P., P., Thobunluepop, W., Chanprasert, and S., Nakasathien.** 2014.

Rajamangala University of Technology Tawan-ok, Thailand

**11th National Seed Conference** Proceeding of " Effects of Seed Priming by Osmoticum on Barley Seed Quality in Malt Industry." **Junhaeng, P., P., Thobunluepop, W., Chanprasert, S., Nakasathien and Y., Thechaboon.** 2014.

Baan Banana Resort, Nakhonnayok, Thailand.

**The 4th Seminar, The Graduate School Kasetsart University.** Proceeding of "The Improvement of Barley Seed Quality by Priming Methods in Malt Industry." **Junhaeng, P., P., Thobunluepop, W., Chanprasert, and S., Nakasathien.** 2014.

University of Tsukuba, Japan

**The 2014 International Symposium on Agricultural Education for Sustainable Development (Ag-ESD Symposium 2014)** **Junhaeng, P., P. Thobunluepop, W. Chanprasert, S. Nakasathien, Y. Thechaboon, K. Makcharoen, K. Khaongern, U. Pangchad and A. Ruttanaruangboworn.** 2014. The Use of Seed Priming Treatments to Improve the Quality of Barley (*Hordeum vulgare* L.) for Malting.

Jureepunsuk Resort, Suphanburi, Thailand.

**The 3rd Seminar, The Graduate School Kasetsart University.** Proceeding of "Seed priming technique to enhance barley seeds qualities for malt production." **Junhaeng, P. and P., Thobunluepop.** 2014.

Baan Banana Resort, Nakhonnayok, Thailand.

**The 2nd Seminar, The Graduate School Kasetsart University** Proceeding of "Seed priming techniques to enhance barley seed quality for malt production." **Junhaeng, P. and P., Thobunluepop.** 2013.

Kasetsart University (Bangken campus), Bangkok, Thailand.

**The 1st Seminar Department of Agronomy, Faculty of Agriculture** Proceeding of "The effect of seed priming techniques and storage management on seed quality changing of barley for malt production." **Junhaeng, P. and P., Thobunluepop.** 2013.

**Deutcher Tropentag 2005, Conference on International Agricultural Research for Development** **Janhang, P., N. Krittigamas, W. Lücke and S. Vearasilp.** 2005. Using radio frequency heat treatment to control seed-borne *Trichoconis*



padwickii in rice seed (*Oryza sativa* L.). Deutcher Tropentag 2005, October 11th -13th, Conference on International Agricultural Research for Development Stuttgart-Hohenheim, Germany.

**Deutcher Tropentag 2005, Conference on International Agricultural Research for Development Janhang, P., N. Krittigamas, W. Lücke and S. Vearasilp.** 2005. Using radio frequency heat treatment to control the insect *Rhizopertha dominica* (F.) during storage in rice seed (*Oryza sativa* L.). Deutcher Tropentag 2005, October 11th -13th, Conference on International Agricultural Research for Development Stuttgart-Hohenheim, Germany.

## CREATIVE WORKS

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[ 2013 - 2023 ]

**Mobile Laboratory** In the countryside and long distance from the laboratory and chemical or biological equipment center, where the research's fields are located, it can cause to loose the nutrient of fresh samples, viability of pollen, etc. I and my team design the usable and simple laboratory in the hotel and on the truck. Later, we purchased the portable kits with limited budget.

[ 2010 ]

**Implement of drying beads for seed drying process** Marigold seed drying process is need the heavy import machine. Also the local dryer was inappropriate in the production season, especially rainy season. In addition, the small scale production was produced, ex. trial, pre-commercial, etc. I, as a R&D, searching for new technology. I found 'drying beads'. It's a small beads, produced from volcanic rock. It has 20% absorption capacity and rapidly reduce the water in seed. The trial was conducted and implement the procedure in sequence.

## DRIVING LICENCE

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**Driving Licence:** AM

**Driving Licence:** B

## HOBBIES AND INTERESTS

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**Crochet, knitting, cooking, stitch, painting, hiking, snorkeling, and traveling** My personality type is INFJ and INTJ. So, the activities that allow me to be alone is my preference. I spend these time for reflection, meditation, and stress management.

Link: [https://drive.google.com/drive/folders/1iw0Ndot3RvmiaF94CwAWwq5hG\\_4CmLac?usp=drive\\_link](https://drive.google.com/drive/folders/1iw0Ndot3RvmiaF94CwAWwq5hG_4CmLac?usp=drive_link)

## HONOURS AND AWARDS

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Bayer Crop Science

**Technical Talk Winner** "The People's Choice Award" on Discovery Day, 18th September 2020. Seed Production Innovation PEP Team. Bayer Crop Science

Seed Association of Thailand

**The Best Paper Award** "The 11th National Seed Conference 2014, May 20-23, Rajamangala University of Technology Tawan-ok, Thailand "Effects of Seed Priming by Osmoticum on Barley Seed Quality in Malt Industry"

Kasetsart University

**Honor Awards for oral presentation session from The Graduate School Kasetsart University** Honor Awards for oral presentation session from The Graduate School Kasetsart University for "The Improvement of Barley Seed Quality by Priming Methods in Malt Production"



Seed Association of Thailand

**2nd award for oral presentation session** "The 11th National Seed Conference 2014, May 20th-23th, Rajamangala University of Technology Tawan-ok, Thailand "Effects of Seed Priming by Osmoticum on Barley Seed Quality in Malt Industry"

University of Tsukuba

**Certificate of Participation** "International Agricultural ESD Symposium" under the auspice of the Japanese National Commission for UNESCO, 10th - 14th November 2014, University of Tsukuba, Japan.

Center of Research and Development of Tropical and Sub-Tropical Crops

**The best award for oral presentation session** "The Conference of Center for Research and Development of Tropical and Sub-Tropical Crops, University of the Thai Chamber of Commerce, Bangkok, Thailand" "Nitrogen Rate and Cultivars on Physiology and Seed Quality of Quinoa"

Kasetsart University, Bangkok, Thailand

**Award for the Best KU Graduate Poster Presenter** "KU-UT Student Symposium 2014: Green Agricultural and Processing Technology for Sustainable" February 24th, 2014 Kasetsart University, Bangkok, Thailand "Effect of seed priming techniques on barley seed storability"

## MANAGEMENT & LEADERSHIP SKILLS

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**Supporter** be as owner characteristic; INFJ and INTJ

**Team leader** gained through my responsibility for seed production manager and research team as senior

**Project management** gained through my responsibility for project leader

**Accountable**

**Problem solving**

## NETWORKS & MEMBERSHIPS

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**Thai Studenten-Verein in Deutschland (unter der Schirmherrschaft S.M. des Königs) TSVD e.V.**

**German-Southeast Asian, Center of excellence for public polity & good governance**

**Prüfungsvorbereitung Deutschtest für Zuwanderer**

**Thai Students in Göttingen, Germany**

Göttingen, Germany

**Laboratory work in Georg-August-University Göttingen, Germany** "Seed Priming Techniques on Seed Qualities related to Malt Productivity of Barley" under the supervision of Prof.Dr.Elke Pawelzik and Prof.Dr. Michael Bredemeier, Department für Nutzpflanzenwissenschaften Aufgabengebiet Agrikulturchemie, Division of Quality of Plant Products, Department of Crop Sciences, Faculty of Agricultural Sciences, Georg-August-Universität Göttingen, Germany

**Alumni of Kasetsart University**

**AC21 International Graduate Summer School Participants**

**Seed Association of Thailand**

**Alumni of Chiangmai University**



## ORGANISATIONAL SKILLS

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**Multidisciplinary** Work independently in a multidisciplinary and multicultural environment (past responsible for scientist)

**Adaptability & Flexibility** Team win the award of 'Flexibility' of global working group and global project. I as a team member.

**Prioritize and Consistency** PDCA, DMAIC, Fishbone diagram, FMEA, Process Map, Pareto chart, Why-why analysis

## RECOMMENDATIONS

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**Name: Sureerat Pingya** | APAC Vegetable Seed Production Research Lead

please emailing to her.

E-mail: [sureerat.pingya@bayer.com](mailto:sureerat.pingya@bayer.com)

**Name: Assoc. Prof..Dr. Pitipong Thobunluepop** | Thesis Advisor

please emailing to him.

E-mail: [fagrpt@ku.ac.th](mailto:fagrpt@ku.ac.th)

**Name: Prof.Dr.Elke Pawelzik**

please emailing to her.

E-mail: [epawelz@gwdg.de](mailto:epawelz@gwdg.de)

**Name: Torsten Fischer**

please emailing to him.

E-mail: [fischer@kriegfischer.de](mailto:fischer@kriegfischer.de)

## PROJECTS

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**New technology for yield improvement, cost saving, and sustainability** Project lead

**Alternative fermentation time procedure for unstable transplanting upgrading** Project lead

**Alternative after ripening procedure to avoid fruit loss and maintain germination and UT** Project lead

**Root cause analysis in plant loss and delivered cost saving** Project lead

**Alternative harvest moment of pollen or male flower to improve seed set** Project lead

**The Selection and Development of Quinoa Varieties for Commercial Production Under Thailand Conditions** Team member

**The Possibility of Quinoa Production in Thailand'** Team member

**Implementation of seed disinfection procedure** Project lead

**Implementation of pollen storage procedure** Project lead

**Food Safety** Team member

**Synthetic seed** Team member

**Electromagnetic Application for Agriculture Product** Team member



## PUBLICATIONS

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- [2018]  
**Seed Priming Techniques on Seed Qualities related to Malt Productivity of Barley Junhaeng, P.** 2018. Seed Priming Techniques on Seed Qualities related to Malt Productivity of Barley. PhD Thesis. Kasetsart University, Thailand. 316 pp.  
PhD Thesis, Kasetsart University, Thailand. 316 pp.
- [2018]  
**The Seed Water Sorption Isotherm and Antioxidant – Defensive Mechanisms of Hordeum vulgare L. Primed Seeds Junhaeng, P., P., Thobunluepop, W., Chanprasert, D., Onwimol, S., Nakasathien, and E., Pawelzik.** 2018. The Seed Water Sorption Isotherm and Antioxidant – Defensive Mechanisms of Hordeum vulgare L. Primed Seeds. American Journal of Plant Sciences 9:2385-2407.  
American Journal of Plant Sciences 9:2385-2407.
- [2015]  
**The Use of Seed Priming Treatments to Improve the Quality of Barley (Hordeum vulgare L.) for Malting. Junhaeng, P., P., Thobunluepop, W., Chanprasert, S., Nakasathien, Y., Thechaboon, K., Makcharoen, K., Khaongern, U., Pangchad and A. Ruttanaruangboworn.** 2015. The Use of Seed Priming Treatments to Improve the Quality of Barley (Hordeum vulgare L.) for Malting. Journal of Developments in Sustainable Agriculture 10(2): 1-6.  
Journal of Developments in Sustainable Agriculture 10(2): 1-6.
- [2014]  
**Effect of Harvesting Time and Nitrogen Levels on Yield and Seed Quality of Quinoa 2 Cultivars Kansomjet, P., P., Thobunluepop, N., Tonmukayakul, P., Boonkorkaew, P., Junhaeng, P., Kaewsuwan, P., Fungfoo, N., Pipattanawong and Iván M.T.** 2014. Effect of Harvesting Time and Nitrogen Levels on Yield and Seed Quality of Quinoa 2 Cultivars. The Conference of Center for Research and Development of Tropical and Sub-Tropical Crops, University of the Thai Chamber of Commerce 8th, Bangkok, Thailand.
- [2007]  
**Effects of Radio Frequency Heat Treatment to Control Seed-borne Fungi and Seed Qualities in Rice Seed cv. Khao Dawk Mali 105 Janhang, P.** 2007. Effects of Radio Frequency Heat Treatment to Control Seed-borne Fungi and Seed Qualities in Rice Seed cv. Khao Dawk Mali 105. M.S. Thesis. Chiang Mai University, Thailand. 82 pp.  
M.Sc. Thesis, Chiang Mai University, 82 pp.
- [2006]  
**Radio Frequency Heat Treatment to Eradicate Fusarium semitectum in Corn Grain (Zea Mays) Vassanacharoen, P., P., Janhang, N., Krittigamas, D., von Hörsten, W., Lücke and S. Vearasilp.** 2006. Radio Frequency Heat Treatment to Eradicate Fusarium semitectum in Corn Grain (Zea Mays). Agricultural Science Journal 37: 180-182  
Agricultural Science Journal 37: 180-182
- [2003]  
**Prediction of Mungbean Seed Quality in Relation to Varying Seed Moisture Content and Storage Temperature Janhang, P.** 2003. Prediction of Mungbean Seed Quality in Relation to Varying Seed Moisture Content and Storage Temperature. B.S. Research Exercise. Chiang Mai University, Thailand. 31 pp.  
B.Sc. Research Exercise, Chiang Mai University. 31 pp.

## SOCIAL & POLITICAL ACTIVITIES

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Member of Buakkhang Subdistrict Municipality, kinder garden





Member of PEOPLE'S PARTY

Member of The well'z fitness

## VOLUNTEERING

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Member of Village health worker