

CURRICULUM VITAE

ZHONGLI PAN Ph.D.

Adjunct Professor
Department of Biological and Ag. Engineering
University of California, Davis

Telephone:

Email:

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CEO and Founder
AIVision Food Inc

EDUCATION

Ph.D. 1998 University of California, Davis
Major: Food Engineering
M.S. 1992 University of Illinois at Urbana-Champaign
Major: Food Engineering
M.S. 1985 Northeast Agricultural University, China
Major: Feed Processing Engineering
B.S. 1982 Northeast Agricultural University, China
Major: Agricultural Engineering (Agricultural Mechanization)

EXPERTISE

Dr. Pan has over 30 years of distinguished experience in government, academia, and industry, with a research focus on postharvest and processing engineering technologies for food and agricultural products. His work encompasses innovative research, development, and commercialization in areas such as pest detection and control, processing, and biorefinery technologies. These efforts aim to enhance the effectiveness, nutrition, value, quality, sustainability, efficiency, and safety of food and agricultural production and byproducts.

Dr. Pan has extensive experience collaborating with California's agriculture and food industries, working with a wide variety of crops. Notably, he led the development and commercialization of the SmartProbe technology, an AI-based, wireless, and visual tool that has been widely adopted by the food and agricultural sectors since its launch last year. This revolutionary technology provides effective solutions for pest control, targeting both insects and rodents.

He is the author of more than 400 scientific publications, holds 6 granted patents (with 5 pending), and has contributed to 3 books and 31 book chapters. Dr. Pan has been honored with multiple prestigious awards in recognition of his contributions to the field.

PROFESSIONAL EXPERIENCE

CEO and Founder (July 2022 – Present): AIVision Food Inc.

ADJUNCT PROFESSOR (September 2011 – Present; ASSOCIATE ADJUNCT PROFESSOR: September 2006 – August 2011; ASSISTANT ADJUNCT PROFESSOR: October 2000 – August 2006): Department of Biological and Agricultural Engineering, University of California, Davis, CA. October 2000 – Present.

RESEARCH ENGINEER: (Grade 15: 2012-2018; Grade 14: 2009-2012; Grade 13: 2003-2009) Healthy Processed Food Research Unit, Western Regional Research Center, USDA-ARS, Albany, CA. August 2003 – September 2018.

DIRECTOR OF WORLD FOOD CENTER - CHINA PROGRAM: University of California, Davis. May 2015– April 2016.

MANAGER OF FAR EAST TECH SERVICE: Division of Research, Archer Daniels Midland Co., Decatur, IL. September 1998 – July 2000.

POST-GRADUATE RESEARCH ASSOCIATE: Department of Biological and Agricultural Engineering, University of California, Davis, CA. July 1998 – August 1998.

PROFESSIONAL AFFILIATIONS

American Society of Agricultural and Biological Engineers (ASABE) (1994-present)
 Institute of Food Technologists (IFT) (Professional Member)
 Asian Association for Agricultural Engineer (AAAE)
 Association of Overseas Chinese Agricultural, Biological and Food Engineers (AOC) (Life member)
 Chinese American Food Society (CAFS) (Life member)
 International Commission of Agricultural Engineers (CIGR)
 American Association of Cereal Chemists (AACC)

SELECTED HONORS and AWARDS

2024 Fellow of the International Academy of Food Science and Technology
 Founding Fellow - International Academy of Drying Science and Technology, International Research Association for Drying Science & Technology (Macao) (IRADSTM) (2024)
 2022 International Food Engineering Award - American Society of Agricultural and Biological Engineers
 2022 AE50 Outstanding Innovation Award (SmartProbe Technology)– American Society of Agricultural and Biological Engineers
 2020 Fellow - Institute of Food Technologists (IFT)
 2019 Fellow - American Society of Agricultural and Biological Engineers
 2019 AE50 Outstanding Innovation Award (IR Technology) – American Society of Agricultural and Biological Engineers
 2018 Research and Development Award – Institute of Food Technologists (IFT)
 2017 Award for Outstanding Commercialization Success - Federal Laboratory Consortium (Far West)
 2017 Technology Transfer Award – Pacific West Area, USDA-ARS
 2017 Life Achievement Award – Chinese American Food Society
 2012 Distinguished Career Award - Association of Overseas Chinese Agricultural, Biological, and Food Engineers
 2009 ASABE Superior Paper award
 2007 The Presidential Early Career Award for Scientists and Engineers
 2007 USDA ARS Herbert L. Rothbart Outstanding Early Career Scientist Award

SELECTED LATEST PUBLICATIONS

1. **Pan, Z., & Khir, R.** (2022). Determination of fumigant reduction potential by using wireless smart technology for early detection of insect activity in rice during storage. *Project report for the California Rice Research Board.*
2. **Pan, Z., & Khir, R.** (2022). Development of real-time monitoring and early detection system for insect activity in rice during storage. *Project report for the California Rice Research Board.*
3. **Pan, Z., & Khir, R.** (2021). Demonstration of wireless technology for monitoring insect activity in almonds. *Project report for the Almond Board of California.*
4. **Pan, Z., & Khir, R.** (2020). An innovative real time monitoring and early detection system for insect activity in grains during storage. U.S. Patent Application 62980952, PCT/US21/19325 (Pending).