



Programme Brochure Online Summer School

From Farm to Fork: Trends and Technologies

August 16-27, 2021



Course leader and program manager

Dr. Liu Zhen, zhen.liu@wur.nl, +31-(0)317 489190

Theme coordinator:

Innovation management and Food: Dr. Zhen Liu

Animal production and social perspective: Dr. Wenjuan Mu Animal production system: Ir. Yue Wang and Ir. Chen Zheng





Platform: Brightspace, WUR online learning platform

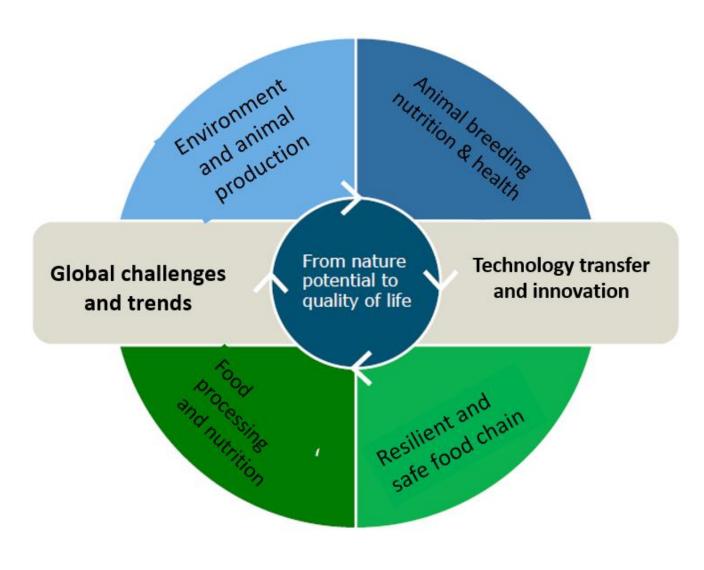
Duration: 2 weeks, 20 hours in total

Intro start: 12 August, 2021 Start date: 16 August, 2021 End date: 28 August, 2021

Time zone: Amsterdam time zone CEST

Organisation: Wageningen Academy | Wageningen University & Research

Program Design:







Detail schedule

2021 Online Summer School Detail Program From Farm to Fork: New Trends and Technologies

(August 16-27, 2021)

	(August 16-27, 2021)		
August 12 Thursday	Summer school pre introduction	Speaker	Group/Organizat ion
9:00-10:00	Intro start: get familiar of brightspace and virtual class of WUR	Zhen Liu	Wageningen Academy
Aug 16 Monday	Summer school introduction	Speaker	Group/Organizat ion
8:30-9:00	Welcome and Meet theme coordinators	all coordinator	WUR
9:00-9:30 9:30-9:35	Introduction of Wageningen University and Research Short break	Zhen Liu	Wageningen Academy
9:35-10:00	Introduce of group Assignments and plenary reflection on the assignments	Zhen Liu	Wageningen Academy
10:00-10:30	Virtual Excursion to Dairy Farm	Zhen Liu	Dairy campus
Aug 17 Tuesday	Global food challenges, transitions and visions	Speaker	Group/Organizat
pre-recorded video	Food transition 2030	Frans Kampers	Corperate Value Creation
pre-recorded video	Oneplanet program	Liesbeth Luijendijk	OnePlanet Research Center
9:00-10:00	A healthy and circular food system: learn from the vision in the NL in 2050	Evelien de Olde (keynote)	Animal Production Systems Group
Aug 18 Wednesday	Environment and animal production	Speaker	Group/Organizat
8:30-9:00	Global warming & animal production	Corina van Middelaar	Animal Production Systems Group
9:00-10:00	The impact of animal production on water quality	Maryna Strokal	Water Systems and
			Global Change Group
10:00-10:30	Circularity in animal sector: Dutch priniciple and Chinese practice	Yue Wang	Global Change Group Animal Production Systems Group
10:00-10:30 Aug 19 Thursday		Yue Wang Speaker	Animal Production
	practice	Ç	Animal Production Systems Group Group/Organizat
Aug 19 Thursday	Animal health, behavior and welfare	Speaker	Animal Production Systems Group Group/Organizat ion Quantitative Veterinary
Aug 19 Thursday 8:30-9:00	Animal health, behavior and welfare Multi-species (human-animal) disease transmission	Speaker You Chang	Animal Production Systems Group Group/Organizat ion Quantitative Veterinary Epidemiology
Aug 19 Thursday 8:30-9:00 9:00-9:30	Animal health, behavior and welfare Multi-species (human-animal) disease transmission Predict animal disease by their behaviors	Speaker You Chang Densheng Sun Marisaka van der	Animal Production Systems Group Group/Organizat ion Quantitative Veterinary Epidemiology Farm Technology Group Business Economics Group Adaptation Physiology Group
Aug 19 Thursday 8:30-9:00 9:00-9:30 9:30-10:00	Animal health, behavior and welfare Multi-species (human-animal) disease transmission Predict animal disease by their behaviors Big data application in Animal health Housing environment and stress effects on pigs' welfare Animal Breeding and Nutrtion	Speaker You Chang Densheng Sun Marisaka van der Voort Lu Luo Speaker	Animal Production Systems Group Group/Organizat ion Quantitative Veterinary Epidemiology Farm Technology Group Business Economics Group Adaptation Physiology Group Group/Organizati on
Aug 19 Thursday 8:30-9:00 9:00-9:30 9:30-10:00 10:00-10:30 Aug 20 Friday 9:00-9:30	Animal health, behavior and welfare Multi-species (human-animal) disease transmission Predict animal disease by their behaviors Big data application in Animal health Housing environment and stress effects on pigs' welfare Animal Breeding and Nutrtion Feeding young poultry: a new nutritional concept	Speaker You Chang Densheng Sun Marisaka van der Voort Lu Luo Speaker Rene Kwakkel	Animal Production Systems Group Group/Organizat ion Quantitative Veterinary Epidemiology Farm Technology Group Business Economics Group Adaptation Physiology Group Group/Organizati on Anima Nutrition group
Aug 19 Thursday 8:30-9:00 9:00-9:30 9:30-10:00 10:00-10:30 Aug 20 Friday	Animal health, behavior and welfare Multi-species (human-animal) disease transmission Predict animal disease by their behaviors Big data application in Animal health Housing environment and stress effects on pigs' welfare Animal Breeding and Nutrtion	Speaker You Chang Densheng Sun Marisaka van der Voort Lu Luo Speaker	Animal Production Systems Group Group/Organizat ion Quantitative Veterinary Epidemiology Farm Technology Group Business Economics Group Adaptation Physiology Group Group/Organizati on





			100years
Aug 23 Monday	Insight on specialized animal sector	Speaker	Group
8:30-9:30	The effects of breeding, feeding, farm management on	Tiny van Boekel	Food Quality and
0.50 5.50	milk quality control	Tilly vall bocker	Design
9:30-10:00	fisheries ecology	Riel, Anne-Jo van	Animal Production
			Systems Group
10:00-10:30	Insects for peace and circular economy	Katherine Barragan	Laboratory of
			Entomology
	Interdisplinary development in food science		
Aug 24 Tuesday	interdispiniary development in rood science	Speaker	Group
8:30-9:30	Reusing food surplus and side streams from agri-food	Yujun Wei	Environmental
0.00 0.00	industries	. ajan 11 c.	technology
8:30-9:00	consumer acceptance on the new food technologies (e.g.	Paul Nales	Marketing and
	GMO, cultured meat)		consumer behaviour
			Group
9:30-10:00	Role of food safety in food supply chain	Vivatta Haffmans	Wageningen Food
10:00-10:30	cost-effective food safety monitoring in food supply chains	Yvette Hoffmans Zhengcong Wang	Safety Research Business Economics
10.00 10.30	cost effective food safety monitoring in food supply chains	Zitchigeong Wang	Group
			5.53p
Aug 25	Food Processing	Speaker	Group
Wednesday			
pre-recorded video	Feeding the World and Keeping our Planet Cool by Proven	Heike Axmann	Wageningen Food &
9:00-9:30	Food Losses and Waste Reduction Strategies	Vuorban Cua	Biobased Research
9:00-9:30	Food loss and waste within food value chain: an in-depth overview	Xuezhen Guo	Wageningen Food & Biobased Research
9:30-10:00			Food Process
	Valorising waste stream from oil-rich seeds	Wanqing Jia	Engineering
10:00-10:30	Extrusion-based 3D food printing and its applications	Lu Zhang	Food Process
			Engineering
Ave 26 Thomaday	Pand and mutuition	Consider	C
Aug 26 Thursday	Food and nutrition Personalised Nutrition and Health	Speaker Martine van der	Group
pre-recorded video	Personalised Nutrition and Health	Mast	Wageningen Food & Biobased Research
8:30-9:30	Sustainable, Healthy, Affordable, Reliable and Preferable	Zhiyao Chang	ADG joint PhD
	Diets in China	, 0	•
9:00-9:30	Nutrition and health: a molecular immunity perspective	Coen Govers	Cell Biology and
			Immunology
9:30-10:00	The role of milk and dairy products in the human diet	Thom	Food Quality and
10:00-10:30	Introduction of Student Challenges in WUR (Rethink	Rio Pals	Design Education & Student
10.00 10.50	Protein)	1110 1 013	Affairs
10:30-11:00	Q&A session week 2	all coordinators	
Aug 27 Friday	Group presentation	Speaker	Group
8:30-8:40	Introduce the final group presentation	Zhen Liu	Wageningen Academy
8:40-9:45	8 groups, each group has 5 minutes presentation +3	all participants	
0.45.40.00	minutes Q&A	п в	
9:45-10:00	final closing and Q&A	all coordinators	





Biographies of the lecturers

2021 Online Summer School: From Farm to Fork: New trends and Technologies



Dr. Zhen Liu

Zhen Liu received a doctoral degree on innovation management from Wageningen University in 2013.

Since 2012, she has been worked as business developer of Food and Biobased Research of Wageningen University and Research, with a drive for research, innovation and entrepreneurship and aim at becoming the bridge between China and EU in the field of food and agricultural business.

Since 2013, she has worked as program manager of Wageningen Academy, which is the port to provide life learning programs for professionals and students. She developed various executive programs for leading agrifood entrepreneurs such as Yili, Nongfu, Stanley, Pagoda, and also technology training programs from young professionals.

Dr. Wenjuan Mu

Ir. Yue Wang





Dr. Frans Kampers

After completing his PhD in physics in Eindhoven, the Netherlands Frans Kampers in 1989 joined what is now Wageningen University & Research. After management functions in instrumentation and measurement technology and information strategy he co-ordinated the bionanotechnology research in Wageningen, which focuses on applications of nanotechnology in food and nutrition. He was president of the International Society of Food Applications of Nanoscale Sciences (ISFANS) and is a member of the Executive Board of NanoNextNL, the Dutch research programme on nanotechnology. He coordinated the Belgium/Netherlands region in the proposal for a Knowledge and Innovation Community (KIC) for the European food sector, set up the cross-over research programme "High Tech to Feed the World". He is the main author of the strategy document "Food Transitions 2030" on how the agrofood system must transition and can become future proof. He was the architect of the Groeifondsproposal FoodSwitch.







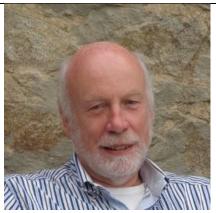
Liesbeth Luijendijk

Liesbeth Luijendijk is Director AgroFood & Environment in the managementteam of OnePlanet Research Center, on behalf of Wageningen University & Research. She has a master degree is in Business Informatics and broad and long industry experience in the application and management of digital technology in a diversity of industrial domains. In Wageningen University & Research she was a Business Development Manager specialised in the domain of Personalised Nutrition and Food Informatics.



Evelien de Olde

Corina van Middelaar
Maryna Strokal
You Chang
Densheng Sun
Marisaka van der Voort
Lu Luo
Rene Kwakkel
Walter Gerrits
Pascal Duenk



Prof. Tiny van Boekel

Dairy Science & Technology, Food Quality and Design Group Wageningen University and Research

Anne-Jo van Riel
Katherine Barragan







Yujun Wei

Yujun Wei received her MSc degree in Food Technology at Wageningen University (2019). After that, she joined Agricultural Green Development (AGD) Program. She currently works as a PhD student in the Environmental Technology group (ETE). Her research focuses on the development of food surplus and byproduct valorization strategies to improve the sustainability performance of current food system.

Paul Nales	Pau	ıΙN	la	les
------------	-----	-----	----	-----

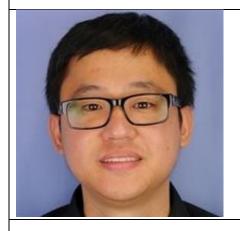
Yvette Hoffmans

Zhengcong Wang



Heike Axmann

Heike works as a senior researcher, international project leader and expertise leader at the Supply Chain Development group at Wageningen Food and Biobased Research, one of the applied research institutes from Wageningen University and Research. There, Heike is leading among others the Climate Change, Agriculture and Food Security project, the Task Force Against Food Loss and Waste in India, and the Postharvest Network. Over the last 20 years Heike Axmann developed and implemented sustainable food and agriculture strategies for private- and public organizations around the world. She has worked in various international supply chain positions "where sustainability meets economy". She was responsible for starting up new routes, such as reducing food loss and waste and food loss and waste induced greenhouse gas emissions in international food supply chains, (re)designing agro-food supply systems, linking (small)producers to European high-end markets, and setting up standards and systems to increase sustainability and transparency in international value chains. Heike holds an MSc degree in agriculture, natural environment and tropical land use from the Wageningen University.



Dr. Xuezhen Guo

Xuezhen Guo is a PhD graduate from Wageningen University and currently works as a food supply chain scientist in Wageningen food and bio-based Research. He has more than 12-year industrial and research experience in the field of fresh food supply chain management, food logistics, food e-commerce, food waste monitoring and valorization, food footprint quantification, circular food systems.

Xuezhen provides consultant service to the governments, NGOs and companies (e.g. EU committee, Dutch governments, Gates foundations, FAO, Mars Incorporated, Vion Food Group).

Wanqing Jia







Dr. Lu Zhang

Lu obtained both her BSc and MSc degree in Chemical Engineering at Xiamen University in China. From 2014 to 2018, she conducted her PhD research on Bioactive ingredients during mini-bread baking at WUR, in collaboration with Soochow University in China. Since April 2020, she is appointed an assistant professor at Food Process Engineering group. She conducts research in the area of 3D food printing, food waste valorisation and data science.



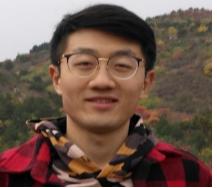
Martine van der Mast

Martine van der Mast has over 20 years of international experience at the business side of the Infant and Clinical market and understanding the Research and Development needs of customers, combined with my scientific background in nutrition, she combines science with the needs and desires of the players in the food and health market to help them accelerate excellence in their business



Dr. Nicole de Wit

For many years, Nicole de Wit was active in molecular science, studying the metabolic effects of food along the intestinal tract. Nowadays, she focuses more on human food intervention studies, in clinical controlled settings as well as real-life settings. Personalised Nutrition fits the latter, in which we want to stimulate people to adapt to a more healthy life style.



Zhiyao Chang

After completing his Master study in Food Processing and Safety in China Agricultural University, Zhiyao Chang joined Agricultural Green Development (AGD) Program in 2020 as a PhD student, both in Division of Human Nutrition and Health (WUR) and College of Food Science and Nutritional Engineering (CAU). His research is aiming to development the Sustainable, Healthy, Affordable, Reliable and Preferable (SHARP) diets in China.







Dr. Coen Govers

Coen Govers received his PhD (2013) in the field of tumour immunology at the department of medical oncology, Erasmus MC-Cancer institute. After this, he took on a position as research scientist at Wageningen Food & Biobased Research where he studied food- or nutraceutical-mediated modulation of the intestinal immune barrier. Together with several PhD students he developed *in vitro* immune models representing the sentinel cells of the immune barrier. These models have been investigated for their responses to prebiotics, probiotics, chitin/chitosan, and PUFAs, also as part of a KWF and TKI grant he coordinated. As of 2021, Coen started a position as assistant professor at the department of cellular biology & immunology at Wageningen University where he will focus on immune-competent organotypic model systems.



Prof. Thom Huppertz

Professor Dairy Science & Technology of Wageningen University and Research Principle Scientist Food Structure of FrieslandCampina



Rio Pals