Chen Zhu

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# EDUCATION

# University of Connecticut (UConn), Storrs, CT

# Current master student in Animal Science

**Michigan State University (MSU)**, East Lansing, MI

Dual Degree: B.S. in Animal Science; B.S. in Food Science

o Dean’s List (Fall 2015, Fall 2018, Spring 2019)

August 2021-Now

September 2015-May 2020

# LABORATORY

**Avian Disease and Oncology Laboratory, U.S. Department of Agriculture** East Lansing, MI, USA

*Intern* July 2018 -Now

* Modified common tissue culture protocols to passage chicken fibroblasts to higher passage possible and observe any visible morphological changes under microscope.
* Participated in animal challenge trials to learn the basics necessary to conduct similar animal experiments under control conditions to test scientific hypotheses.
* Analyzed small RNA\_Seq data and learn to prepare manuscripts for publication of the findings from research data-sets.

# Animal Science #188 Laboratory, Shandong Agricultural University Shandong, China

*Intern* June-August 2017

* Participated in 2017 Chinese government selective examination of salmonella in poultry at major farms.
* Detected and separated salmonella in stool of chicken; Independently tested over 800 samples from five farms; Recorded test data and isolate strains.
* Analyzed Chicken Avian Leukosis Virus (ALV) with Elisa kit from egg white.

**Jinan Baizhun Biology Inspection Co. Ltd** Jinan, Shandong, China

*Intern* May-June 2017

* Tested the SPF chicken serum and egg white for 19 specific pathogens, using various Elisa kits base in compliance with SOPs. Recorded test results to help farms eliminate unqualified chicken.
* Utilized plate agglutination test for Salmonella pullorum.
* Detected sex of chickens at 0-1-day old, using Polymerase chain reaction (PCR) Test.

# PUBLICATIONS

Lei Zhang1,2†, **Chen Zhu1,3**†, Mohammad Heidari1, Kunzhe Dong1,4, Shuang Chang1,5, Qingmei Xie1,6, and Huanmin Zhang1\*. Marek’s disease vaccinesinduced differential expression of known and novel microRNAs in primary lymphoid organ bursae of White Leghorn. Veterinary Research. https://doi.org/10.1186/s13567-020-00746-4

Zijing Ju1，Lulu Cui1，**Chen Zhu**2，Qingxiao Liu1，Fuyou Zhang1，Chengfang Men1，Yu Li1，Shuhong Sun1,3,4\*. Effects of Clostridium butyricumon Growth Performance, Immune Function and Diversity of Intestinal Flora in Broilers. Journal Of Shandong Agricultural University.

ONG Yan1, ZHANG Fu-You1, GU Xiao-Xue2, JIANG Zhi-Yu1, **CHEN Zhu3**, YANG Jie1, WU Shao-Peng1，SUN Shu- Hong. The status of infection, analysis of drug resistance characteristics and clonal relationship analysis of Salmonella in Bairi chicken farm. Chinese Journal of Preventive Veterinary Medicine.

# INTERNSHIP

**Jinan Spafas Poultry Co. Ltd** Jinan, Shandong, China

*Poultry Farm Worker* May-August 2019

* Raised Specific Pathogen-Free (SPF) Chickens, blocking all the possible ways that may cause infection,
* Recorded flock data every day, maintain the best ratio of rooster and hens.
* Collected and Selected qualified eggs, ensuring that every egg had the perfect shape, weight, no foreign body like blood clot inside the egg, smooth shell without and cracks.
* Research and development of the most suitable ratio of chicken feed.

**Ajinomoto Co., Inc. (AJINY)** East Lansing, MI, USA

*Intern* January-May 2019

* Conduct the market research, developed a new healthy frozen fried product, and simulated the establishment of practical industrial production lines in compliance with SOPs and HACCP.
* Won the Second Prize in the Food Development Competition.

# PROJECTS

**Research and Development of New Dairy Products** MSU

*Team Member* September-December 2019

* Aimed to create a kind of chocolate yogurt ice cream, and simulated the establishment of production lines.
* Responsible for selecting the production, conducting the background research, and designing the formula.
* Took in charge of the adjustment and calculation of all formulations.

# Research of the Most Economical Ratio of Chicken Feed MSU

*Team Member* September-December 2019

* Responsible for recording the growth status of chicken, based on which adjusting the feed formula to reduce the cost as much as possible which ensuring the healthy and qualified weight of the chicken.