# MEIJING LIANG

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## SKILLS & CERTIFICATES

**Programming Languages**: R, Python, HTML, and Linux
**Software**: QGIS, PIX4D, Adobe Dreamweaver, Adobe Photoshop
**Licenses:** Remote Pilot (Drone) License (Cert# 4501022)
**UAVs Operated:** DJI Inspire 2, DJI Phantom 4, and DJI Air 2S
**Builder & Administer of Lab Website:** https://zzlab.net

## EDUCATION

**WASHINGTON STATE UNIVERSITY**, *Pullman, WA*     **2021 – Present**

- ❖ Ph.D. student in Crop Science
- ❖ Research Areas: Genome-Wide Association Study & Gnomic Selection in crops, wheat kernel image classification with Convolutional Neural Networks, and alfalfa forage prediction using UAV imagery
- ❖ Related Courses: Plant Breeding, Bioinformatics, GIS Spatial Analysis, Remote Sensing, Population Genetics, Computational & Analytical Methods in R

**WASHINGTON STATE UNIVERSITY- IAREC**, *Prosser, WA*     **2018 – 2021**

- ❖ Visiting Scholar in Crop Science
- ❖ Research Areas: Increasing alfalfa forage yield, forage quality, and seed yield through improved management practices, plant breeding, and other strategies to reduce biotic and abiotic stresses and production costs

**WASHINGTON STATE UNIVERSITY**, *Pullman, WA*     **2016 – 2018**

- ❖ Visiting Scholar in Crop Science
- ❖ Research Areas: Genome-Wide Association Study in Soft Winter White Wheat

**NORTHEAST AGRICULTURAL UNIVERSITY (NEAU)**, *Harbin, China*     **2012 – 2015**

- ❖ MS in Animal Genetics, Breeding & Reproduction
- ❖ Dissertation: *Genetic Parameter Estimates of Liver Fat Traits in Broiler Lines Divergently Selected for Abdominal Fat and Construction of Chicken Body Fat Related Gene Database*
- ❖ Related Courses: Quantitative Genetics, Population Genetics, Genetic Marker Principles and Methods, Bioinformatics Principles and Application, Animal Experiment Statistical Analysis, Advanced Animal Biochemistry

**NORTHEAST AGRICULTURAL UNIVERSITY**, *Harbin, China*     **2008 – 2012**

- ❖ BS in Animal Science
- ❖ Dissertation: *Target Gene Prediction and Analysis of Chicken Non-Coding RNA*
- ❖ Related Courses: Animal Physiology, Animal Histology and Embryology, Animal Biochemistry, Animal Genetics, Biostatistics, Microbiology and Immunology, Animal Nutriology, General Veterinary Medicine, Animal Breeding

## TEACHING ASSISTANTSHIPS

**WASHINGTON STATE UNIVERSITY**, *Pullman, WA*

- ❖ SOIL SCI 374 Introduction to Remote Sensing     **Spring 2023**
- ❖ SOIL SCI 368 Geographic Information Systems     **Fall 2022**

## PUBLICATIONS

1. **Meijing Liang**, Zhipeng Wang, Hui Li. Estimates of Genetic Parameters for Liver Fat Content in Broiler Lines Divergently Selected for Abdominal Fat[C]. *The 34th International Society for Animal Genetics Conference*. Xi'an: 2014, P1029.

2. **Liang, M.**, Wang, Z., Li, H.. Target Gene Prediction and Functional Analysis of Animal Fat Metabolism Related Mirna[C]. *Information Technology Branch, Chinese Association of Animal Science and Veterinary Medicine*. 2014, 58-63.

3. WANG Zhi-peng, GUO Yuan-yuan, **LIANG Mei-jing**. Research Progress on Related Database for Animal Transcription Factors[J]. *Animal Husbandry and Feed Science* 2014, 35(12): 28-30.

4. **Liang M J**, Wang Z P, Xu L, et al. Estimating the Genetic Parameters for Liver Fat Traits in Broiler Lines Divergently Selected for Abdominal Fat[J]. *Genetics and molecular research: GMR*, 2014, 14(3): 9646-9654.

5. **Liang, M.**, Wang, Z., Li, H.. Structural Comparison and Functional Analysis of Chickens of the *LET-7* Family[C]. *Poultry Branch, Chinese Association of Animal Science and Veterinary Medicine*. 2015, 21.

6. **Meijing Liang**, Zhiwu Zhang. Inflated False Positives behind a Beautiful QQ Plot in GWAS[C]. *Plant and Animal Genome XXVI Conference*. 2018, P0040.

7. **Meijing Liang**, Haixiao Dong, Scott Carle, Nuan Wen, Jacob Lamkey, Arron Carter, Zhiwu Zhang, Kimberly Campbell. Genome-Wide Association Study Navigates Wheat Spike Compactness *(C)* Locus to Domestication *Q* Gene Homolog Gene *TAPARG* on 2DL Near Centromere [C]. *Plant and Animal Genome XXVII Conference*. 2019, PE0998.

## INTERNSHIPS

**FEMALE VILLAGE OFFICIAL CONSULTANT**, *Heilongjiang, China* **Dec. 2009 – Dec. 2010**

❖ Supported female village official by teaching science and technology to farmers

**HARBIN WEIPENG FEED CO., LTD.** , *Harbin, China* **Jul. 2011 – Aug. 2011**

❖ Collaborated with Dairy Cattle farmers to record milk production and change dairy feed

**NEAU POULTRY RESEARCH FARM**, *Acheng, China* **Mar. 2012 – Jul. 2012**

❖ Raising white-feather broiler chickens for research purposes

## AWARDS & HONORS

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|---|---|
| AgAID Digital Agathon Labor Challenge Competition 4th Prize | **Jan. 2023** |
| Second Prize Scholarship for NEAU Graduate Student | **Nov. 2015** |
| Excellent Graduates Honorary Title of Heilongjiang Province | **Mar. 2012** |
| Third Prize for NEAU Mathematical Modeling Competition | **May 2012** |
| Third Prize for Harbin Industrial Designs Competition | **Mar. 2011** |
| ❖ *Approved for Appearance Design Patent* | |
| Second Prize Scholarship for NEAU Comprehensive Quality 2010-2011 | **Nov. 2011** |
| NEAU Academic Excellence Award | **Nov. 2011** |
| NEAU Innovation and Technology Scholarship Award | **Nov. 2011** |
| Excellence Award for NEAU Book Reading Symposium | **Mar. 2010** |
| Third Prize Scholarship for NEAU Comprehensive Quality 2009-2010 | **Nov. 2010** |
| Third Prize Scholarship for NEAU Comprehensive Quality 2008-2009 | **Nov. 2009** |