# Dr. Jingyue (Ellie) Duan

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EMPLOYMENT ——		
Assistant Professor	Cornell University	Starting July 1, 2021
	Department of Animal Science	
Visiting Assistant	Cornell University	Nov. 2020- present
Professor	Department of Animal Science	·
Postdoctoral	Brown University	Mar. 2019- present
associate	Molecular Biology, Cellular Biology,	
	Biochemistry. Dr. Erica Larschan, PI	
Research associate	University of Connecticut	Dec. 2018- Mar. 2019
	Department of Animal Science	
	Dr. Xiuchun (Cindy) Tian, Pl	
EDUCATION ——		
Ph.D.	University of Connecticut	Dec. 2018
	Department of Animal Science	
	Dr. Xiuchun (Cindy) Tian, Pl	
Certificate	University of Connecticut	May. 2018
	Department of Education	
	Certificate in College Instruction	
M.S.	University of Connecticut	Oct. 2017
	Department of Animal Science	
	Dr. Xiuchun (Cindy) Tian, Pl	
B.S.	Sichuan University	Jun. 2014
	Department of Life Science and Biology	
	Dr. Qun Sun, advisor	
Non-degree	University of Connecticut	Sep. 2013-May 2014
	Department of Animal Science	
	Dr. Kumar Venkitanarayanan, advisor	

- PUBLICATION
- <u>Duan J</u> and Larschan E. (2019) Dosage Compensation: How to Be Compensated...Or Not? *Current Biology*. https://doi.org/10.1016/j.cub.2019.09.065
- <u>Duan JE</u>, Jiang Z, Alqahtani F, Mandoiu I, Dong H, Zheng X, Marjani S, Chen J and Tian XC. (2019) Whole genome bisulfite sequencing of bovine in vivo gametes and preimplantation embryos. Frontier of Genetics doi: 10.3389/fgene.2019.00512
- 3. <u>Duan JE</u>, Flock K, Jue N, Zhang M, Jones A, Seesi S, Mandoiu I, Pillai S, Hoffman M, O'Neill R, Zinn S, Govoni K, Reed S, Jiang H, Jiang Z and Tian XC. (2019) *Dosage Compensation and Gene Expression of the X Chromosome in Sheep. G3: Genes Genomes Genetics* https://doi.org/10.1534/g3.118.200815 selected to publish in GSA Journal Spotlight 2019

- 4. <u>Duan JE</u>, Jue NK, Jiang Z, O'Neill R, Wolf E, Blomberg LA, Talbot N, Dong H, Zheng X, Chen J, and Tian XC. (2019) *Dosage compensatory of X chromosome in bovine germline cells, early developmental embryos and somatic cells.* **Genome Biology and Evolution** doi: 10.1093/gbe/evy270
- 5. <u>Duan JE</u>, Zhu L, Dong H, Zheng X, Chen J, Jiang Z, and X. Tian. (2019) *Abundance of mRNA for histone variants, histone, and DNA modification enzymes in bovine in vivo oocytes and pre-implantation embryos. Scientific Reports* doi: 10.1038/s41598-018-38083-4
- 6. <u>Duan JE</u>, Zhang M, Flock K, Seesi S, Mandoiu I, Jones A, Johnson E, Pillai S, Hoffman M, Mcfadden K, Jiang H, Reed S, Govoni K, Zinn S, Jiang Z and Tian XC (**2018**). *Effects of Maternal Nutrition on the Expression of Genomic Imprinted genes in Ovine Fetuses. Epigenetics* doi: 10.1080/15592294.2018.1503489
- 7. Jiang Z, Lin J, Dong H, Zheng X, Marjani SL, <u>Duan JE</u>, Ouyang Z, Chen J, and Tian XC. (2018) DNA methylomes of bovine gametes and in vivo produced preimplantation embryos. **Biology of Reproduction** doi:10.1093/biolre/ioy138
- 8. Wang L, Jiang Z, Huang D, <u>Duan J</u>, Huang C, Sullivan S, Vali K, Yin Y, Zhang M, Wegrzyn J, Tian XC, and Tang Y (**2018**) JAK/STAT3 regulated global gene expression dynamics during late-stage reprogramming process. *BMC Genomics* 19:183 doi:10.1186/s12864-018-4507-2
- Huang D, Wang L, <u>Duan J</u>, Huang C, Tian XC, Zhang M, and Tang Y (2018) LIF-activated Jak signaling determines Esrrb expression during late-stage reprogramming. *Biology Open* doi:10.1242/bio.029264
- 10. Wen W, Luo X, Xia B, Guan J, Nie Y, Li L, <u>Duan J</u>, Suman SP, and Sun Q. (**2015**) *Post-mortem oxidative stability of three yak (Bos grunniens) muscles as influenced by animal age.* **Meat science** doi: 10.1016/j.meatsci.2015.03.014.
- 11. Feng Q, Jing Y, Huang Z, <u>Duan J</u>, Zhen C, Sun H, Zhong J, and Sun Q. (**2014**) *Genotyping of Beijing family of Mycobacterium tuberculosis isolates from Sichuan with MIRU-VNTR. Journal of Sichuan University (Medical Science Edition)* doi: 103969/j.issn.0490 6756.2014.04.036

## **Manuscripts in Preparation**

1. **Duan JE\***, Reider L\*, Larschan E. **(2020)** The transcription factors cooperate to regulate the maternal-to-zygotic transition in Drosophila embryos **(under review eLife)** 

### **Undergraduate Honor Thesis**

**Duan J** (2014): Effect of eugenol and rutin hydrate on virulence factors of Vibrio parahaemolyticus. SCU

#### TEACHING AND MENTORING -

- 1. Mar 16<sup>th</sup>-18<sup>th</sup>, 2021: Guest lecture "**Molecular analysis and Biotechnology**" and discussion sessions "**CRISPR/Cas9 and genome editing**" in Principle of Animal Genetics, ANSC, Cornell.
- 2. Nov. 3<sup>rd</sup>, 2020: Guest lecture "**How to make GMO using genome editing**" in Animal Embryology and Biotechnology (ANSC3323/5621), ANSC, UCONN.
- 3. Oct. 31<sup>th</sup>, 2019: Guest lecture "**Method in Genome engineering /Genome editing: ZFN, TALEN and CRISPR/Cas9**" in Animal Embryology and Biotechnology (ANSC3323/5621), ANSC, UCONN.
- 4. Dec.4<sup>th</sup>, 2018: Guest lecture "**Epigenetics--Genomic Imprinting and X Chromosome Inactivation**" in Animal Embryology and Biotechnology (ANSC3323/5621), ANSC, UCONN.

- 5. Apr. 18<sup>th</sup>, 2018: Guest lecture "**Animal Genetic Testing and Genomic Selection**" in Animal Breeding and Genetics (SAAS121). ANSC. UCONN.
- 6. Nov. 10<sup>th</sup>, 2017: "**Ensembl genome browser tutorial**" in Principles of Animal Genetics (ANSC3121), ANSC, UCONN.
- 7. Sep. 21<sup>st</sup>, 2017 and Sep.18<sup>th</sup>, 2018: Guest lecture "**Preimplantation Genetic Diagnosis**" in Embryo Biotechnology (ANSC3323/5621), ANSC, UCONN.
- 8. Nov. 4<sup>th</sup>, 2016 Guest lecture "**X chromosome inactivation**" in Principles of Animal Genetics (ANSC3121), ANSC, UCONN.
- 9. Fall 2016: Graduate Teaching Assistant in **Reproductive Physiology** (ANSC3122), ANSC, UCONN.
- 10. Fall 2015, 2017, 2018: Graduate Teaching Assistant in **Animal Embryology and Biotechnology** (ANSC3323/5621), ANSC, UCONN.

## **Mentoring:**

- 2014-2019: Mentored UConn undergrad and fellow graduate students on RNA-seq data analysis, and use of Ensembl genome browser, UCSC genome browser, NCBI database search, DAVID and BLAST.
- 2. 2019-present: Mentoring two Brown undergrad students in fly cross set up, fly dissection, molecular biology experiments, immunostaining and electrophoretic mobility shift assay.

#### HONORS -

- 1. 2020 Postdoc Conference Award, Brown University, RI
- 2. 2019 Postdoc Travel Award, Brown University, RI
- 3. 2019 International Travel and Registration Award for six student competition finalists. International Embryo Technology Society (IETS) Foundation, New Orleans, Louisiana
- 4. 2018 Travel and Registration award, Institute for Teaching and Mentoring, Arlington, Virginia
- 5. 2018 Epigenetics & Chromatin Meeting Financial aid, Cold Spring Harbor Laboratory
- 6. 2018 Preparing Future Faculty Scholarship and Travel Fund, Stony Brook University
- 7. 2018 ANSC Outstanding Graduate (Ph.D.) Student award, UCONN
- 8. 2018 3 Minute Thesis Competition finalist, UCONN
- 9. 2018 Doctoral Dissertation Fellowship, UCONN
- 10. 2018 Doctoral Student Travel Award, UCONN
- 11. 2017 Travel and Registration Scholarship to attend the 22nd Summer Institute in Statistical Genetics, University of Washington in Seattle
- 12. 2017 Best Poster Presentation Runner-up Award, IETS
- 13. 2016 Outstanding Self-financed Xinjiang Students Studying Abroad Scholarship
- 14. 2016 Jerry Yang Summer Fellowship, ANSC, UCONN
- 15. 2016 Oral Presentation Award, Graduate Research Forum, CANHR, UCONN
- 16. 2012-2014 First-Class Scholarship at Sichuan University each year for three years, SCU
- 17. 2011 Third-Class Scholarship at Sichuan University, SCU

#### PROFESSIONAL DEVELOPMENT

## **Academia Conferences**

1. Mar. 2021: The 62<sup>nd</sup> Drosophila conference, Virtual.

- 2. Jan. 2021: The 47<sup>th</sup> Annual meeting of IETS, Virtual.
- 3. Oct. 2020: Frontiers in Single Cell Genomics (Virtual), CSHL
- 4. Sep. 2020: Epigenetics & Chromatin (Virtual), CSHL
- 5. Apr. 2020: Genome Organization & Nuclear Function (Virtual), CSHL
- 6. Mar. 2020: The Allied Genetics Conference (Virtual), GSA
- 7. Sep. 2019: Mechanism of Eukaryotic Transcription, CSHL, NY
- 8. Mar. 2019: The 60<sup>th</sup> Drosophila conference, Dallas, TX
- 9. Jan. 2019: The 45<sup>th</sup> Annual meeting of IETS, New Orleans, LA
- 10. Sep. 2018: Epigenetics & Chromatin, CSHL, NY
- 11. Jan. 2018: Plant & Animal Genome XXVI conference. San Diego, CA
- 12. Jun. 2017: Impact of CRISPR on Imprinting Disorders. Institute for Systems Genomics, Storrs, CT
- 13. Jan. 2017: The 43rd Annual meeting of the IETS, Austin TX
- 14. Jan. 2016: The 42<sup>nd</sup> Annual meeting of International Embryo Tech. Society (IETS), Louisville KY
- 15. Sep. 2012: National Conference of Microbial genetics. Southwestern University, Chongging, China
- 16. July 2012: Global conference of Chinese geneticists. Zhejiang University, Hangzhou, China

## **Professional Trainings**

- 1. Oct. 2020: NIH grant writing workshop, Virtual Event
- 2. Jul. 2020: 23rd Annual NIEHS Biomedical Career Symposium, Virtual Event
- 3. Jul. 2020: Diversity & Inclusion in STEM Community Conversation, Brown University, RI
- 4. Oct. 2019: Women in STEM Symposium, Brown University, RI
- 5. Oct. 2018: Invited participant: Institute on Teaching and Mentoring, VA
- 6. Jun. 2018: Preparing Future Faculty workshop, Stony Brook university, NY
- 7. Apr. 2018: 3 Minute Thesis competition, UCONN, Storrs, CT
- 8. Jul. 2017: The 22nd Summer Institute in Statistical Genetics at UW in Seattle, Seattle, WA
- 9. May 2013: Institute Pasteur of Shanghai Course: Detection, isolation, identification, collection and storage of Respiratory Virus, Institute Pasteur, Shanghai, China
- 10. Aug. 2012: Summer Camp "Swedish Nature". Uppsala University, Uppsala, Sweden
- 11. Jul. 2011: The "Environment and natural resources" Fieldwork Research at Ruoergai Grasslands, Tibet Plateau, China
- 12. 2010-2014: Undergrad Training Plan in Basic Disciplines (**Mount Everest Plan**), Life Science department, SCU, China

### **Professional Memberships**

- 1. 2019 present Genetics Society of America (GSA)
- 2. 2017 2018 Plant & Animal Genome (PAG)
- 3. 2015 present International Embryo Technology Society (IETS)
- 4. 2014 2017 American Association for the Advancement of Science (AAAS)

#### **Publication Services**

**Journal Editor history**: Guest Associate Editor in Livestock Genomics, Frontiers in Genetics **Journal reviewer history**: Frontiers in Genetics, Journal of Developmental Origin, Life Science Alliance, Molecular ecology, Developmental Cell, BMC Biology, Animal Genetics, Nature Communication, EMBO Reports, PLOS One, Molecular Biology and Evolution, Theriogenology, Cellular reprogramming, Journal of Reproduction, BMC Genomics, Scientific Data, *Cells*, Reproduction, Fertility and Development, Biology of Reproduction