Liaoyi (Luis) Xu

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	EDUCATION
2022 – Present	Ph.D. in Bioinformatics and Computational Biology Department of Integrative Biology University of Texas at Austin, TX, USA Advisor: Arbel Harpak
2018 – 2021	M.A. in Animal Science Zhejiang University, Hangzhou, China
2014 – 2018	B.A. in Life Science and Technology Southwest University for Nationalities, Chengdu, China
	Honors & Awards
2023 - 2024	UT Austin Professional Development Awards
2023	ASHG 2023 Charles Epstein Award Finalist (Top 2%)
2023	American Chinese Geneticist Association (ACGA) Trainee Award
2021	Excellent Postgraduate Students' Award (merit honor for Top 10%)
2020	Sunshine Scholarship (Top 3 students in the major)
2020	Graduate of Merit/Triple A Graduate (merit honor for Top 5%)
2020	Award of Honor for Graduate (merit honor for Top 10%)
2018 – 2020	Academic Scholarship
2018	Excellent Graduate Students' Award (merit honor for Top 10%)
2014 – 2018	The Agriculture & Forestry Scholarship
	Publications
2025	Liaoyi Xu, Eucharist Kun, Devansh Pandey, Joyce Y Wang, Marianne F Brasil, Tarjinder Singh, and Vagheesh M Narasimhan. "The genetic architecture of and evolutionary constraints on the human pelvic form". Science
2023	Yanhong Chen, Wei Cheng, Jia Tang, Boneng Xiao, Ming Kuang, Liaoyi Xu, and Hongying Liu. "Mitigating cognitive impairment in aging mice: Exploring the therapeutic potential of ischelium". Biochemical and Biophysical Research Communications
2022	Tingyao Zhu, <u>Liaoyi Xu</u> , Jiacheng Peng, Ming Chen, and Haisheng Xu. "Molecular characteristics and immune function of ubiquitin C-terminal hydrolase-L3 in Macrobrachium nipponense". Fish & Shellfish Immunology

2021 Liaoyi Xu, Xiefei Zhou, Peichen Wang, Qian Jin, Tingyao Zhu, Ming Chen, and Haisheng Xu. "The novel six LIM and one PET domain-containing protein Lmpt is involved in the immune response through activation of the NF- κ B signalling pathway in the crustacean, Macrobrachium nipponense". Developmental & Comparative Immunology Wei Zhang, Qiangqiang Chen, Liaoyi Xu, Jianfeng Cai, and Jinzhi Zhang. "The poten-2021 tial role of PSMA6 in modulating fat deposition in pigs by promoting preadipocyte proliferation and differentiation". Gene 2021 Tingyao Zhu, Xiefei Zhou, Wei Zhang, Yue Wu, Jingjing Yang, Liaoyi Xu, Ming Chen, Weiren Dong, and Haisheng Xu. "Multiplex and real-time PCR for qualitative and quantitative donkey meat adulteration". Journal of Food Measurement and Characterization Liaoyi Xu, Yue Wu, Xiefei Zhou, Peichen Wang, and Haisheng Xu. "Characterization 2020 and immune function of decapentaplegic (Dpp) gene from the oriental river prawn, Macrobrachium nipponense". Fish & Shellfish Immunology Liaoyi Xu, Xiefei Zhou, Yue Wu, JingJing Yang, and Haisheng Xu. "A novel SNW/SKIP 2020 domain-containing protein, Bx42, is involved in the antibacterial responses of Macrobrachium nipponense". Developmental & Comparative Immunology 2020 Yue Wu, Yuxiao Sun, Wanrong Zhang, Jingjing Yang, Xiefei Zhou, Liaoyi Xu, Peichen Wang, and Haisheng Xu. "Molecular cloning, characterization, and expression analysis of lipopolysaccharide-induced TNF-lpha factor (LITAF) in the mud crab, Scylla paramamosain". Crustaceana CONFERENCE PRESENTATIONS 2023 Liaoyi Xu, Eucharist Kun, Marianne F. Brasil, Tarjinder Singh, Vagheesh M. Narasimhan. Deep learning to understand the genetic architecture and evolution of the human pelvis. Society for Molecular Biology and Evolution (SMBE), Puerto Vallarta, Mexico (Poster Presentation) 2023 Liaovi Xu, Eucharist Kun, Marianne F. Brasil, Tarjinder Singh, Vagheesh M. Narasimhan. Deep learning to understand the genetic architecture and evolution of the human pelvis. American Society of Human Genetics (ASHG) Annual Meeting, Washington, D.C., USA (Oral Presentation) **TALKS** 2024 Deep learning to understand the genetic architecture and evolution of the human pelvis. ACGA Virtual Seminar (Invited) 2023 Deep learning to understand the genetic architecture and evolution of the human pelvis. The University of Texas at Austin, Special BASIL Meeting, Department of Anthropology

2023

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Deep learning to understand the genetic architecture and evolution of the human

pelvis. The University of Texas at Austin, BioTACOs, Department of Integrative Biol-

SKILLS

Computational: Python (Pandas, Polars, Matplotlib, Seaborn, PyTorch, pyMC, Numpy, Scikit-learn,

JAX, Statsmodels), R (JAGS, Tidyverse, RStan, ggplot2), SQL, Lage, UNIX shell.

Experimental: RNA/DNA extraction and purification, PCR/qPCR, molecular cloning, siRNA and

dsRNA interference, CRISPR related gene-editing, cell culture, flow cytometry,

Western blot.

Languages: Mandarin (Native), English (Proficient).