CURRICULUM VITAE

Basic Information*

First Name:	Peymaneh
Last Name:	Davoodi
Email:	Pey.davoodi@gmail.com

Photo

Current Primary Affiliation/Institution*

Department/Division:	Animal Science
University/Institution:	Tarbiat Modares University
City:	Tehran
Country/Region:	Iran

Highest Degree & Job Title*

Highest Degree*:	Doctorate (Ph.D., M.D., etc.)
Job Title*:	Researcher

Research Fields*

Genetics and Animal Breeding;

Omnigenic Model;

Genomics, Genome-Wide Association Study;

Phenome-Wide Association Study;

Meta-Analysis;

Bioinformatics;

Gene Family Analysis;

Online Profiles
(Please provide your personal profile URLs if you already have accounts on the following platforms.)

ORCID:	0000-0002-7037-2956
ResearchGate:	https://www.researchgate.net/profile/Peymaneh-Davoodi
Google Scholar:	https://scholar.google.com/citations?user=Gs_jP2IAAAAJ&hl=en
Publons:	https://www.webofscience.com/wos/author/record/AAW-8986-2021
SSRN:	
Academia:	

Education*

Doctor of Philosophy (Ph.D.) - Aug 2016 - Jan 2022 •Animal Breeding and Genetics
Tarbiat Modares University - Tehran-Iran
Ph.D. Thesis (Jan 2022): Evaluation of Omnigenic Model for Explaining Genetic Architecture of Chicken quantitative traits.

Master of Science (M.Sc.) - Sep 2001 - Jul 2003 •Animal Science and Nutrition
Gorgan University of Agricultural Sciences and Natural Resources - Golestan- Iran

Bachelor of Science (B.Sc.) - Sep 1998 - Jul 2000 •Animal Science
Kurdistan University - Kurdistan - Iran

Work Experiences*

2016-present
Academic Editing and Data Analysis
Freelancer
•**Editing and revising academic manuscripts. •Data cleaning, validation, and visualization.**
•**Pattern recognition in complex time series data.**
•**Mathematical modeling (Linear, Nonlinear, Artificial Neural Networks, and Machine Learning).**
•**Performing Genome Wide Association Studies with different approaches.**
•**Data mining, systematic review, and meta-analysis.**
•**Wide range of bioinformatics analyses.**

#2017-2021
Poultry Breeding
Tarbiat Modares University
•**Strived to generate chickens with registered parents for breeding programs.**
•**Applied leg and wing ID bands for experimental chickens.**
•**Recorded chicken's economic traits including body weight, body length feed intake,**
water consumption, and egg parameters for experimental researches.
•**Health monitoring, vaccination, blood sampling, and troubleshooting.**
•**Performed meat quality analysis in free-range and intensive rearing systems.**

#2012-2013
Quality Controller in Hatchery Organization
Ghaffari Company
•**Followed quality standards and procedures to minimize poor-quality day-old chickens and**
maximize hatch rate.
•**Supervised the instruments, ventilators, and incubators to be calibrated.**
•**Monitored, recorded measurements, and provided graphical and analytical reports at**
various stages.
•**Active communication with laying breeders and customers of day-old chicks.**

Publications*

P. Davoodi and N. Goudarzvand Chegini (2024) Application of Fuzzy Logic Approach to Distinguish Core and Peripheral Genes Based on Omnigenic Model (2024), **Under review.**

E. Nasre Esfahani, S. Ansari Mahari, and **P. Davoodi** (2023) Quantification and Clustering of Published Genome-Wide Gene Family Analyses in Animals. 5th international and 17th Iranian genetic congress. At: Tehran-Iran

P. Davoodi, M. Ghaderi-Zefrehei, J. Smith & et al (2023) In silico investigation of uncoupling protein function in avian genome. Frontiers in Veterinary Science 9 DOI: 10.3389/fvets.2022.1085112

P. Davoodi (2022) GC17-05110557 An Interactome Network Infers the Omnigenic Control of Complex Diseases in Cattle. **Oral Presentation**. 5th international and 17th Iranian genetic congress. At: Tehran-Iran.

P. Davoodi., A. Ehsani., R. Vaez Torshizi., and A.A. Masoudi. (2022) Chicken Quantitative Traits Follow the Omnigenic Model. WCGALP 2022

P. Davoodi, A. Ehsani., R. Vaez Torshizi., and A.A. Masoudi. (2022) New insights into genetics underlying of plumage color. Animal Genetics, 53(1): 80-93. DOI: 10.1111/age.13156

P. Davoodi, A. Ehsani., R. Vaez Torshizi., and A.A. Masoudi. (2022) A meta-analysis comparing the composition and quality differences between chicken meats produced under the free-range and conventional systems, Journal of World's Poultry Research, 1-23. DOI: 10.1080/00439339.2022.2008781

P. Davoodi., A. Ehsani., R. Vaez Torshizi., and A.A. Masoudi. (2021) Water consumption modeling in Iranian Native chicken. 9th National & 1th International Animal Science Congress of IRAN

P. Davoodi., A. Ehsani., R. Vaez Torshizi., and A.A. Masoudi. (2021) Epistasis Identification in Genome-wide association study of Chicken Plumage color by LD pruning approach. 9th National & 1th International Animal Science Congress of IRAN

P. Davoodi., A. Ehsani., R. Vaez Torshizi., and A.A. Masoudi. (2020) Inferring Genetic Architecture of Chicken Genome Using the Brand-New Omnigenic Model. The fourth International and 16th National Genetics Congress

P. Davoodi and A. Ehsani. (2020) Characteristics of carcass traits and meat quality of broilers chickens reared under two different rearing systems, World's Poultry Science Journal, 10(4): 623-630. DOI: 10.36380/jwpr.2020.71

M. Darzi Niarami., A.A. Masoudi., R. Vaez Torshizi., and **P. Davoodi**. (2020) A Novel Mutation in the Promoter Region of Avian Uncoupling Protein3 Associated with Feed Efficiency and Body Composition Traits in Broiler Chicken. Journal of World's Poultry Research. 10(1): 87-95. DOI: 10.36380/jwpr.2020.71

P. Davoodi and A. Ehsani. (2019) In-silico investigation of genomic regions related to ascites and identifying their pathways in broilers World's Poultry Science Journal, 75(02): 193-206. DOI: 10.1017/0043933919000035

P. Davoodi and A. Ehsani. (2018) Weighted and un-weighted estimation of economic traits' heritability in native Iranian chickens by meta-analysis method. Conference paper in Persian. 8th Iranian Animal Science Congress