CORRICULUM VITAE

Dr. Alireza Ghaedi

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Personal information:

- Date of Birth : 15/06/1980
- Place of Birth: Iran
- Nationality: Iranian
- Marital Status: Married
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Education:

- Ph.D. 2009-2012: Aquaculture Nutrition, USM, Malaysia.
- M.Sc. 2004-2006: Aquaculture Nutrition, IAU, Iran.
- B.Sc. 2000-2004: Aquaculture Nutrition, IAU, Iran.

Professional Employment:

- 2006-2008: Head of Breeding Aquatic Animal Group University of Applied Sciences, Iran
- 2009-2012: PhD Student and Research Assistant (RA) at USM, Penang-Malaysia.
- 2010-2012: Lab Assistant, Laboratory of Fish Nutrition, USM, Penang-Malaysia
- 2012-current: Scientific Board the Iranian Fisheries Science Research Institute, Tehran-Iran
- 2013-2014: Research deputy of the National Rainbow trout Research Center, Yasouj, Iran
- 2014-2019: Head of the National Rainbow trout Research Center, Yasouj, Iran
- 2019-current: Head of the National Tilapia Research Centre- Bafq-Iran

Teaching Experience:

- ***Fish Biology:*** General ichthyology, taxonomy, reproduction and distribution of the freshwater fishes in Iran and marine fishes of the Gulf.
- ***Aquaculture:*** General culture techniques, culture systems, fish nutrition, artificial propagation and aquaculture economics.
- ***Fish Nutrition:*** Natural food, production of live food, artificial feed, nutrient requirements of fish, fish feed formulation, feeding regimes.
- ***Fish Breeding and Propagation:*** Reproductive biology, spawning, fertilization, hatching and larval rearing, larval nutrition, sex reversal, production of mono sex fish.

Student supervision:

- **Thian Hai Chung, PhD student, UNIMAS, Malaysia:** Appraisal of genetic diversity and fitness of cross breeding Tilapia and Empurau with special focus on their original species
- **Mahdi Naderi, PhD student**. Effect of vitamin E and selenium nanoparticles and different stocking density on liver proteomic analysis, humoral immune status and acute stress response in rainbow trout fingerlings
- **Esmaeil Kazemi, PhD student.** Effect of different dietary zinc sources on semen quality in rainbow trout male brooders.
- **M.J Mohammadi, PhD student.** Application of acidifier on rainbow trout diet and its effect on immune system and its gene-related expression
- **Javad Mahdavi, MS.c student.** Effect of selenium nanoparticles on male rainbow trout reproductive performance
- **Eisa Falahat, MS.c student.** Effect of selenium nanoparticles on female rainbow trout reproductive performance
- **Fatemeh Khazaei, MS.**c student. Effect of different dietary arginine levels on sperm quality in male rainbow trout broodstock

Technical Experiences:

- Professional at premix formulation in variety of levels for aquatic animals.
- Professional at least-coat fish/shrimp feed formulation and production.
- Familiar with the most farmed aquatic animal nutrient requirement.
- Familiar with the most material used for aquafeed production.
- Well experienced in extruder aquafeed line process.
- Well experienced in pellet aquafeed line process.
- Well experienced aquafeed formulator.
- Aquaculture Nutrition consultant.
- BFT-Based Tilapia culture.

Research Project:

- Reproductive biology and puberty of snakehead *channa striatus* in captivity. (Executer)
- Effect of different protein levels on reproductive performance and larval quality, muscle, liver and ovary biochemical chemical composition of *channa striatus.* (Executer)
- Effect of different lipid levels on reproductive performance and larval quality, muscle, liver and ovary biochemical chemical composition of *channa striatus.* (Executer)
- Reproductive biology and puberty of Catfish, *Pangasianodon hypophthalmus* in captivity.
- Effect of different protein levels on reproductive performance and larval quality, muscle, liver and ovary biochemical chemical composition of *Pangasianodon hypophthalmus.*
- Effect of different lipid levels on reproductive performance and larval quality, muscle, liver and ovary biochemical chemical composition of *Pangasianodon hypophthalmus.*
- Effect of Betafine and growth hormone on growth parameters in rainbow trout. (Executer)
- Effect of different protein levels on reproductive performance of paradise fish *(Macropodus opercularis).* (Executer)

- Effect of Arginine levels on sperm quality in rainbow trout. (Executer)
- Production of full female rainbow trout population via indirect method in Iran
- Effect of dietary vitacell on growth performance, lysosome activity, intestinal histology, hematological factors and body composition of juvenile rainbow trout (*Oncorhynchus mykiss*)
- The role of dietary nucleotide on the survival, hematological and serum biochemical factors of Persian Sturgeon (*Acipenser persicus*) after oxygen tension.
- Effect of different lipid sources on fatty acid synthase enzyme activity, its gene expression and cloning in rainbow trout (Executer)
- National rainbow trout breeding program with cooperation of NOFIMA, Norway.
- Effect of different protein levels on reproductive performance of Nile Tilapia in biofloc system

Computer Skills:

SPSS, Microsoft Office, MS Project, EndNote and Photoshop

Language Skills:

- Native in Persian
- Fluent English Speaker
- Good at Scientific English Writing

Scientific Skills:

- Well experience in writing proposal, planning and running scientific project and data analysis.
- Well-experienced to run proximate analysis, GC and HPLC for aqua-feed and feed ingredient.
- Well-practiced to computerized formulation of pellet and extruded aqua-feed and premixes.
- DNA extraction, Molecular genetics, RT, PCR and laboratory works.
- Immune nutrition and nutritional related disease in aquatic animal.
- GMP, GAFMP and HACCP in Aquaculture Feed Industry.

Publications:

- **Alireza Ghaedi**, Abbas Ali Zamini and Habib Vahhabzadeh. Effect of T4 and Betafin on growth performance of Rainbow Trout larvae. *Presented in the National Conference of Aquaculture Development* / ***University of Gorgan,2008- Iran***

- Ali Ganjian, K., Ghasemnejad, M., Roohi, A., Pourgholam, R., Omar, W., Mansor, M. and **Ghaedi, A., 2012**. Temporal and spatial variations of phytoplankton in the Caspian Sea. ***African Journal of Microbiology Research, 6, 4239-4246***

- Mohammad Anamul Kabir**, Alireza Ghaedi** and Roshada Hashim (2012). Ovary Development at first sexual maturity of juvenile female catfish *Pangasianodon hypophthalmus* (Sauvage 1878) Stocked in Plastic Canvas Tank**. Vol 25, No.3 Pages; 218-227, *Journal of Asian Fisheries Sciences.***

- **Alireza Ghaedi**, Muhammad Anamul Kabir and Roshada Hashim (2012.) Effect of Different Lipid Levels on Reproductive Performance, Egg and Larval Quality and Tissue Biochemical Composition of Snakehead murrel *Channa striatus*, **Aquaculture Research Journal, (2014),** DOI: 10.1111/are.12557

- Alireza Ghaedi, Muhammad Anamul Kabir and Roshada Hashim (2013), Oocyte Development and Fecundity of Snakehead Murrel, Channa striatus (Bloch 1793) in Captivity.**Vol 26, Journal of Asian Fisheries Sciences**

- Muhammad Anamul Kabir, **Alireza Ghaedi** and Rosha Hashim (2018). The Effect of Different Lipid Levels in Broodstock Diets on Spawning Performance, Egg Biochemical Composition and Quality of Catfish, *Pangasianodon hypophthalmus* (Sauvage 1878) (Under review).

- Muhammad Anamul Kabir, **Alireza Ghaedi** and Rosha Hashim (2013). The Effect of Different Protein Levels in Broodstock Diets on Spawning Performance, Egg Biochemical Composition and Quality of Catfish, *Pangasianodon hypophthalmus* (Sauvage 1878), **Aquaculture Research Journal, (2013),** DOI: 10.1111/are.12326

- Fatemeh Khani, Mohammad Reza Imanpoor, Hamed Kolangi Miandare, **Alireza Ghaedi** (2015). Effect of nucleotide supplemented diets on growth performance, humeral and serum biochemical parameters of juvenile of Persian sturgeon (*Acipencer persicus*). Published in Persian.

- **Alireza Ghaedi**, and Mahmoud hafeziyeh, (2018): Effect of different protein levels on reproductive performance of paradise gourami *Macropodus opercularis*, Under review at Journal of Asian Fisheries Science

- Fatemeh Pourkhazaei, Eisa Ebrahimi and **Alireza Ghaedi (2016):** Arginine effects on Biochemical Composition of Sperm in Rainbow trout, Aquaculture Research. DOI: 10.1111/are.13172

- Maghsoudlou, Elham, Yahya, Khairun**, Ghaedi, Alireza**, Sitiazizah, Mohd, **2017**; Reproductive biology of the jellyfish (Chrysaora sp.) in the north-western coastal waters of Malaysia (Penang Island). Indian journal of Geo Marine Science. 46 (4):822-829

- Mahdi Naderi, Saeed Keyvanshokooh, Amirparviz Salaati and **Alireza Ghaedi**, (2017): Proteomic analysis of liver tissue from rainbow trout under high rearing density after administration of dietary vitamin E and selenium nanoparticles, Comparative Biochemistry and Physiology, Part D, DOI: http://dx.doi.org/10.1016/j.cbd.2017.02.001

- Mahdi Naderi, Saeed Keyvanshokooh, Amirparviz Salaati and **Alireza Ghaedi**, (2017): Effect of Dietary vitamin E and selenium nanoparticles supplementation on acute stress responses in rainbow trout previously subjected to chronic stress, Aquaculture. DOI: http://dx.doi.org/10.1016/j.aquaculture.2017.02.020

- Mahdi Naderi, Saeed Keyvanshokooh, Amirparviz Salaati and **Alireza Ghaedi**, (2017): Combined or individual effects of dietary vitamin E and selenium nanoparticles on humoral immune status and serum parameters of rainbow trout under high stocking density, Aquaculture. DOI: http://dx.doi.org/10.1016/j.aquaculture.2017.03.036

- **Alireza Ghaedi,** Komail Pakzad and Mahdi Soltani (2017): Bacterial Biomass as a nutrient source in diet of aquaculture species**,** Unpublished work**.**

- Mahdi Naderi, Saeed Keyvanshokooh, Amirparviz Salaati and **Alireza Ghaedi,** (2017): Effects of chronic high stocking density on liver proteome of rainbow trout (*Oncorhynchus mykiss*), Fish Physio Biochem, DOI 10.1007/s10695-017-0378-8

- Ali taheri mirghaed, Peyman Yarahmadi, Seyed Hossein Hosseinifar**, Alirza Ghaedi**, (**2018**): The effect of singular or combined administration of fermented fiber and probiotic on mucosal immune parameters, digestive enzymes activity, gut microbiota and growth performance of Caspian white fish (*Rutilus frisii kutum*) fingerlings**.** Fish and shellfish immunology. DOI: 10.1016/j.fsi.2018.02.007

- MahdiNaderi, Saeed Keyvanshokooh **AlirezaGhaedi** and Amir ParvizSalati, **(2018):** Effect of acute crowding stress on rainbow trout (*Oncorhynchus mykiss*): A proteomics study Journal of Aquaculture, https://doi.org/10.1016/j.aquaculture.2018.05.038

- The effects singular or combined administration of fermentable fiber and probiotic on mucosal immune parameters, digestive enzyme activity, gut microbiota and growth performance of Caspian white fish (*Rutilus frisii kutum*) fingerlings (**2018**). https://doi.org/10.1016/j.fsi.2018.02.007

- **Alireza Ghaedi**, Homayoun Hosseinzadeh and Roshada Hashim (2018). Effect of different protein levels on reproductive performance of snakehead murrel, *Channa striatus* (Bloch, 1793). Iranian Journal of Fisheries Science. DOI: 10.22092/ijfs.2018.117602

- Mahdi Naderi, Saeid Keyvanshokooh, Alireza Ghaedi, Amirparviz Salati **(2019)**. Interactive effect of dietary nano seleniume and vitamin E on growth, haematology, innate immune responses, antioxidant status and muscle composition of rainbow trout under high rearing density. DOI: 10.1111/anu.12931

- Kazemi, Esmaeil, Sourinejad, Iman, **Ghaedi, Alireza**, Johari, Seyed Ali, Ghasemi, Zahra **(2020)**. Effect of different dietary zinc sources (mineral, nanoparticulate, and organic) on quantitative and qualitative semen attributes of rainbow trout (Oncorhynchus mykiss). Aquaculture, https://doi.org/10.1016/j.aquaculture.2019.734529

- M.torfi, O.Safari, **A.R Ghaedi** (2021). Effect of single-phase fasting period and subsequent refeeding on compensatory growth, digestive enzyme activities and anti-oxidant capacity of sobaity and yellowfin seabream. DOI: 10.2478/aoas-221-0070

Referees

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