Feb 27, 2017

**Curriculum vitae**

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**Contact Information**

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| Faculty of Marine Natural ResourcesKhorramshar University of Marine Science and Technology Khozestan, Iran.E-mail: Azarmhamid@gmail.com Tel. +82-9165810642 |

**Education**

**Ph.D**. 2012. Tarbiat Modaress University, Tehran, Iran.
Major: Fish Nutrition in Department of Aquaculture.
Thesis Title: **Effect of Various Levels of Soybean and Egg Lecithin with Fish Meal and Casein Protein Sources on the Growth, Fatty Acid Composition, Activity of Digestive Enzymes and some Physiological Parameters of *Oncorhynchus mykiss* Alevin**

**M.S.** 2005. Tarbiat Modaress University, Tehran, Iran.
Major: Fish Nutrition in Department of Aquaculture.
Thesis Title: **Effect of probiotic protexin on the growth and survival of rainbow trout larvae (*Oncorhynchus mykiss)***

 **B.S.** 2003. Isfahan University of Technology. Isfahan, Iran.
Department of fisheries Education (Major: Aquaculture)

Thesis Title: **evaluation food preferences of common carp in ponds**

**Professional Background**

2012. – Present: Assistant Professor, Faculty of Marine Natural Resources, Khorramshar University of Marine Science and Technology, Khorramshar, Khuzestan province, Iran

2011.3- 2012.1: Visiting researcher in Department of Fish nutrition, Gangneung-Wonju National University, Gangneung, South Korea.

Project conducted: **Evaluation replacement of fish meal with fermented soybean meal in diet of Olive flounder and black sea bream**

**Research Interests:**

The research conducting by my students and me is followings:

1. Research in our laboratory is focused on nutrition and nutritional physiology of different fish species. We use growth trial to determine the essential nutrient requirements, feed additive and replacement of fishmeal and fish oil in diet of different fish species. Biochemical analyses, histology and enzyme assays are used to evaluate the performance and to determine the nutrient requirements and nutrient utilization by fish.

**Teaching:**

1. Undergraduate courses: Live Food for fish, Fish Nutrition and Lab, General Ichthyology and Lab, General Ecology, Cold water fish Breeding & Reproduction, Warm water fish Breeding & Reproduction, Aquatic animal Breeding & Reproduction

2. Graduate courses: Advanced Fish Nutrition, Advanced Hydrobiology, Analysis Method

**REFEREE FOR JOURNAL ARTICLES SUBMITTED TO:**

Journal of Khorramshar Marine Science and Technology, Iran.

Journal of Animal Researches (Iranian journal of Biology), Iran.

Journal of Sustainable Aquaculture, Iran.

**RESEARCH B.c.A STUDENTS SUPERVISED**

1-Effect of different levels of Borage powder (*Borago officinalis*) on blood biochemistry and liver enzymes activity of fingerling Carp *Cyprinus Carpio* by Cheragi.

2- Dietary administration of garlic, onion and pepper powders to enhance growth, immunological parameters and coloration of Guppy fish by Mousavi

**RESEARCH M.Sc STUDENTS SUPERVISED:**

1-Effect of replacing fish meal with plant protein soybean meal and yeast on growth performance and survival of juvenile *Mesopotamichthys sharpeyi by* Alboghbeish (M.S). Defended 2014

2-Effect replacement of fish meal with plant protein sources on digestive enzymes activity and biochemical body composition of juveniles (*Mesopotamichthys sharpeyi*) by Mohammadinafchi . Defended 2014

3-Effect of different levels of egg lecithin on growth performance, feed utilization and lipoprotein fractions of juveniles of Beni fish (*Mesopotamichthys sharpeyi*) by Mohammadi. Defended 2014

4- Effect of different levels of egg lecithin on digestive enzyme activity, body composition and biochemical blood factors of juveniles of Beni fish (*Mesopotamichthys sharpeyi*) by Seidzadeh . Defended 2014

5-Effect of dietary supplement Gammarus meal powder on growth parameters and increased resistance to environmental stress in Zebra Cichlid (*Amatitlania nigrofasciata)* by Gabtani . Defended 2014

6-Effect of spirulina supplementation on growth parameters and increased resistance
of Zebra Cichlid (*Amatitlania nigrofasciata*) against environmental stress by Gorbani. Defended 2014

7-Effect of inulin, Onion (*Allium cepa*) and Savory (*Satureja khuzestanica*) meal on Growth performance, digestive enzyme activity­­ and body composition of juvenile carp *Cyprinus carpio* by Safariyan . Defended 2015

8-Effect of Inulin, Onion (*Allium cepa*) and Savory (*Satureja khuzestanica*) meal on activity of antioxidant and liver enzymes and blood factors in juveniles of Common carp (*Cyprinus carpio carpio*) by Vaez . Defended 2015

9-Effect of Inulin, Onion (*Allium cepa*) and Savory (*Satureja khuzestanica*) meal on immunological parameters and intestine histology of juveniles of Common carp (*Cyprinus carpio carpio*) by Mousavi. Defended 2015

10- The effects of increase levels of niacin on growth performance, body composition and digestive enzymes activities of juvenile Carp (*Cyprinus carpio*) by Chopani. Defended 2016

11- The effects of increase levels of niacin on Gut and Liver histology and some liver enzymes activities of juvenile Carp (*Cyprinus carpio*) by Mohammadi. Defended 2016

12- Interactions between different dietary L-carnitine and lipid levels on growth performance, blood parameters and antioxidant status in common carp Juveniles (*Cyprinus carpio)* by Sabzi. Defended 2016

13- Effect of different stocking density of Common Carp in Biofloc system on growth performance, feed utilization and some digestive enzymes activity by Torfi. Not defended

14- Effect of different stocking density of Common Carp in Biofloc system on blood biochemical parameters and some liver enzymes activity by Nazarpor. Not defended

**RESEARCH PhD STUDENTS SUPERVISED:**

1. The possibility cultivation of Common carp in Biofloc system by Alimahmmodi. Not defended
2. The Effect of different levels and sources of Formic acid in diet on growth performance, digestive enzymes activity, some immunological and biochemical parameters of blood and gut histology of common carp by Maktabi. Not defended
3. The effect of different levels of Choline and lipid in diet on fatty acid profile, Antioxidant enzymes activity and blood biochemical parameters of Common carp by Bagayi. Not defended
4. The effect of different niacin and Carbohydrate in diet on growth performances, biochemical parameters of hemolymph and Lvchh expression in *litopenaeus vannamei* by Zendehbodi. Not defended

**RESEARCH STUDENTS ADVISER:**

1-Effect of short term starvation and re-feeding on digestive enzyme activity of fingerling (Mesopotamichthys sharpeyi) by Zareii (M.S). Defended 2014

2-Effect of short term starvation and re-feeding on digestive enzyme activity of fingerling Asian sea bass by Porshafi (M.S). Defended 2014

3-Effect of oral administration of two probiotic *Lactobacillus plantarum* and *Lactobacillus bulgaricus* from intestinal of Shirbot (*Barbus grypus*) on immune stimulation of common carp (Cyprinus carpio) by Behzadifard (M.S). Defended 2014

4-Effect of supplementary lysine and methione on growth performance, feed utilization and body composition of juvenile of *Sparidentex hasta* by **B**iramii (M.S). Defended 2014

5-Effects of dietary powdered green tea on oxidative stress induced by comparison with the levels of oxidized fish oil in sterlet sturgeon , *Acipenser ruthenus* by HassanPour (M.S). Defended 2015

6-Effect of beta oligosaccharides on growth performance, immonological parameters and proteomics of brood stock of rainbow trout by Ghaedi (PhD). Defended 2015

7-Effects of dietary green tea on acute stress responses in Sturgeon hybrid (*Acipenser stellatus X Huso huso*) by Ebrahimi (M.S). Defended 2015

8-Effect of Onion powder on growth performance and feed utilization of Convict cichlid *Amatitlania nigrofasciata* by Brageh (M.S). Defended 2015

9-Comparative study between two commercial fish diet; Havorash and Gold Queen on growth performance, digestibility and body composition of *litopenaeus vannamei* by Salimi (M.S). Defended 2016

10- Effect of different levels of extract and powder meal of garlic on growth performances, feed utilization and fillet quality of Common carp by Hoshoshi. Defended 2016

11- Effect of different ammonia and salinity concentration on antioxidant enzymes activity in *litopenaeus vannamei* by Khodadadi. Defended 2017

**RESEARCH PROJECT:**

1-Effect of different levels of alcoholic extract and melssa of Borage (*Borago officinalis*) on growth performance and biochemical parameters of fingerling Carp *Cyprinus Carpio. Chamran University of Ahvaz*

2-Effects of partial substitution of dietary fish meal by fermented soybean meal on growth performance, biochemical body composition and activity of digestive enzymes of juvenile yellow tail sea bream *(Acanthopagrus latus). Islamic Azad University of Abadan.*

3- The effects of *Lactobacillus casei* on growth, body composition and digestive enzymes of Convict cichlid *Amatitlania nigrofasciata. Khorramshar University of Marine Science and Technology*

4- The effects of different levels of spirulina powder on growth factors, boy composition and some serum biochemical parameters of ornamental fish Oscar (*Astronotus ocellatus*). *Khorramshar University of Marine Science and Technology*

**Publications in International Journals:**

Lee, S.M., **Mohammadiazarm**, H., Chang, K.H. (2016). Effects of dietary inclusion of fermented soybean meal on growth, body composition, antioxidant enzyme activity and disease resistance of rockfish (*Sebastes schlegeli*). ***Aquaculture,***459:110–116.

Ghaedi, G., Keyvanshokooh, S., **Mohammadiazarm**, H., Akhlaghi, M. (2016). Proteomic analysis of muscle tissue from rainbow trout (*Oncorhynchus mykiss*) fed dietary β-glucan. ***Iranian Journal of Veterinary Research****,* 17(3):184-189

Hasanpour, S., Salati, A., Falahatkar, B., **Mohammadiazarm**, H. (2016). Effect of Green Tea (*Camellia sinensis* L.) on Growth, Blood and Immune Parameters in turgeon Hybrid (*Huso huso ♂* × *Acipenser ruthenus ♀*) Fed Oxidized Fish Oil. ***Turkish Journal of Fisheries and Aquatic Sciences*** DOI: 10.4194/1303-2712-v17\_4\_10

Seiedzadeh, S.M., Yavari, V., **Mohammadiazarm**, H., Mosavi, S.M. (2016). Lecithin effects on blood biochemical parameters and resistance to thermal stress in juvenile of *Mesopotamichthys sharpeyi* (Cyprinidae family). ***Iranian Journal of Fisheries Sciences*** 15(4) 1455- 1464

Ghaedi, G., Keyvanshokooh, S., **Mohammadiazarm**, H., Akhlaghi. M. (2015). Effects of dietary β-glucan on maternal immunity and fry quality of rainbow trout (Oncorhynchus mykiss). ***Aquaculture,*** 441:78–83

Ebrahimi, V., Salati, A., **Mohammadiazarm, H.,** Hasanpour, S. (2015). Effects of dietary green tea (Camellia sinensis L) on acute stress responses in sturgeon hybrid (Huso huso ♂ 🞫 Acipenser ruthenus ♀). ***Aquaculture Research,*** 1–6. doi:10.1111/are.12908

 Mousavi, E., **Mohammadiazarm**, H., Mousavi, S.M., Rajabzadeh, E. (2015) . Effects of inulin, savory and onion powders in diet of juveniles carp *Cyprinus carpio* (Linnaeus 1758) on gut micro flora, immune response and blood biochemical parameters. ***Turkish Journal of Fisheries and Aquatic Sciences.*** DOI: 10.4194/1303-2712-v16\_4\_09

 Seiedzadeh, S.M., Yavari, V., **Mohammadiazarm**, H., Mousavi, S.M. (2015). Evaluation effect of dietary egg lecithin on digestive enzymes and body composition of juvenile binni (Mesopotamichthys sharpeyi Gunther, 1874). ***International Journal of Aquatic Biology ,*** 3(2): 72-77

Mohammadi, M., Yavari, V., **Mohammadiazarm**, H., Zakeri, M. (2015). Evaluation effect of egg lecithin on growth performance, feeding parameters and lipoprotein fractions of *(Mesopotamichthys sharpeyi).* ***Journal of fisheries sciences,*** 9(1):1-6

**Mohammadiazarm, H.,** Lee, S.M. (2014).Effects of partial substitution of dietary fish meal by fermented soybean meal on growth performance, amino acid and biochemical parameters of juvenile black sea bream *Acanthopagrus schlegeli*. ***Aquacultre research,***45(6): 994-1003.

**Mohammadiazarm, H.,** Lee, S.M. (2014). Evaluation of fermented soybean meal to replace fish meal for juvenile olive flounder, *Paralichthys olivaceus*: growth performance, amino acid profile and biochemical parameters. ***European Journal of Zoological,*** 3(4):6-12.

Ehsani, J., **Mohammadiazarm**, H., Maniat, M., Ghabtani, A., Eskandarnia, H. (2014). Effects of partial substitution of dietary fish meal by fermented soybean meal on growth performance, body composition and activity of digestive enzymes of juvenile yellowfin sea bream (*Acanthopagrus latus*). ***International journal of Bioscience,***5(4): 99-107.

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| Mohammadinafchi, F., **Mohammadiazarm**, H., Yavari, V., Salati, S., Zanquee, N. (2014). Effect replacement of fish meal with soybean meal and baker's yeast on digestive zymes activity and biochemical body composition of juveniles (*Mesopotamichthys sharpeyi* Günther, 1874).***International journal of Bioscience,***5(5): 128-138. Ghorbani-Jezeh, **K., Mohammadiazarm, H.,** Maboudi, H. (2014). Increases resistance of ornamental Convict cichlid (Amatitlania nigrofasciata) to environmental stress by Spirulina powder. ***International journal of biosciences,*** 5(8): 128-134.Ghabtani, A., **Mohammadiazarm**, H., Maboudi, H. (2014). Effect of Gammarus Powder on Increases Resistance of Convict Cichlid (Amatitlania nigrofasciata) to Environmental Stress. ***International journal of biosciences,*** 5(9). 231-236. |

**Mohamadiazarm**, Abedian Kenari, A., Hedayati, M. (2013). Effect of dietary phospholipid sources and levels on growth performance, enzymes activity, cholecystokinin and lipoprotein fractions of rainbow trout (*Oncorhynchus mykiss*) fry. ***Aquaculture research*,** 44(4): 634-644.

**Mohamadiazarm**, Abedian Kenari, A., Hedayati, M. (2013). Growth response and fatty acid composition of rainbow trout (*Oncorhynchus mykiss*) fry fed diets containing different levels of soybean and egg lecithin. ***Aquaculture international****,* 21(2):497-509.

**Domestic Iranian Journals (In Persian language):**

Mohammadi, K., **Mohammadiazarm**, H., Salati, A., Rajabzadeh, E. (2017). Effect of different levels of niacin in diet on gut and liver histology and some activity of liver enzymes of juvenile Carp (*Cyprinus carpio*). ***Iranian Journal of Natural Resources; Fisheries***, 69(2): 253-263.

Safarian, F., **Mohammadiazarm**, H., Salati, A., Ziaeinejad, S. (2017). Evalution the effect of inulin and herbal addetives (Savory and Onion Powder) on growth performance, feeding indices, body composition and activity of digestive enzymes (Lipase, Amylase and Alkaline phosphatase) in the juveniles of the common Carp (*Cyprinus carpio*). ***Journal of wetlands***, 30:

Vaez, R., **Mohammadiazarm**, H., Mousavi, S.M., Rajabzadeh, E. (2017). Effects of herbal supplements and inulin on activity of antioxidant enzymes and some blood factors in juveniles of Common Carp (*Cyprinus carpio*). ***Journal of Iranian Veterinary***

Alboghbeish, M., **Mohammadiazarm**, H., Yavari, V., Zakeri, M. (2015).Effect of fish meal replacement by soybean meal and baker’s yeast on growth performance and feed utilization of juvenile *Mesopotamichthys sharpeyi* Gunther 1874. ***Journal of research animals***, 28(2): 136-145

**Mohamadiazarm**, Abedian Kenari, A., Hedayati, M. (2012).The Effect of Soybean and Egg Lecithin on the Growth, Survival and Resistance to Anoxia Stress in Rainbow trout (*Oncorhynchus mykiss*) Alevin. ***Iranian Journal of Natural Resources; Fisheries***, 65(2):219-230.

**Mohamadiazarm**, Abedian Kenari, A. (2009). Increasing the resistance to physicochemical environmental stress in ornamental Tiger barb (*Capoeta tetrazona*) by feeding supplementary Gammarus powder. ***Iranian Journal of animal Science,***1(2):77-85.

Yeganeh**,** M.S.,Abedian, A., Rezai, M., Mohammadiazarm, H. (2004). Increasing the resistance to physicochemical environmental stress in *Oncorhynchus mykiss* by feeding supplementary Gammarus powder. ***Iranian Journal of Marine Science and Technology,***3(1):57-66.

**Mohamadiazarm**, H., Abedian, A., Abtahi, A. (2004). Effect of probiotic protexin on the growth and survival of rainbow trout larvae (*Oncorhynchus mykiss).* ***Iranian Journal of Marine Science and Technology,***3(2-3): 69-75.

**Conference Meeting:**

Sabzi, E., **Mohammadiazarm, H.,** Salati, A. (2016). The effects of L-Carnitine in the diet on growth factors of common carp fingerlings. 5 th Congress on Agriculture& Aquatic& Food. Bousher, Iran. (Full Paper in Persian)

**Mohammadiazarm, H.,** Lee, S.M. (2014). Evaluation of fermented soybean meal to replace fish meal for juvenile olive flounder, *Paralichthys olivaceus*: growth performance, amino acid profile and biochemical parameters. First conference of Khorramshar Marine Science and Technology. Khorramshar. Iran

Maniat, M., Ghotbedin, N., Rajabzadeh, E., **Mohammadiazarm, H**. (2014). Effect of different levels of Paprika on some growth factors, survival and biochemical body composition of Benni fish (*Mesopotamichthys sharpeyi*) . International journal of art and science (IJAS) International Conference for Technology and Science, American University of Rome, Via Pietro Roselli 4, 00153 Rome.(Full Paper)

Biramii, N., Zakeri, M., Kochenian, P., Yavari, V., **Mohammadiazarm**, H. (2014). Important role of Amino acids, methionine and lysine in feeding of fish with an emphasis on carnivorous fish of Persian Gulf. Third National Conference of Agriculture&Aquatic animals& Food. Bushehr Agricultural Education. Iran. (Full Paper in Persian)

Biramii, N., Zakeri, M., Kochenian, P., Yavari, V., **Mohammadiazarm**, H. (2014) Investigate the relationship between length and weight of Spardentex hasta in Persian Gulf. Second National Conference of Fisheries and Aquatic of Iran, Islamic Azad University of Bandar Abass, Iran. (Full Paper in Persian)

Salimi, M., Rajabzadeh, E., **Mohammadiazarm,** H., Hosseini, S.N. (2014). Comparison Beiza and Gold queen commercial diets on the growth factors of Vannamei shrimp. Sustainable development of sea-based congress. Khorramshar, Iran. (Full Paper in Persian)

Behzadifard, Z., Zanquee, N., Alishahi, M., **Mohammadiazarm, H.,** Mohammadiyan, T. (2014). The effects of different levels of dietary probiotics on growth, nutrition, survival and immune system of Common carp. Sustainable development of sea-based congress. Khorramshar, Iran. (Full Paper in Persian)

Abedian A., **Mohammadiazarm, H.,** Abtahi, B., Rezaei, M. (2008). Effect of probiotic protexin on the growth and survival of rainbow trout larvae*Oncorhynchus mykiss)*', 13th international biotechnology symposium & exhibition. Pages 553.(Abstract)

**Skills:**

I have experience in cultivation of fresh water ornamental fish for 2 years. Also, my knowledge of English langue is good due to study English language in Kish institute for 2 years.