

PERSONAL INFORMATION

Babak Najafpour
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Sex Male
Date of birth Sunday, March 1, 1987
Nationality Iranian

EDUCATION AND TRAINING

2014-present Registered for a PhD in Isfahan University of Technology, Isfahan, Iran - ongoing

Year 1 – Advanced PhD course:

- Advanced Genetic and Aquatics Selection; theory (96h) and practical (48h) Grade: 19/ 20 (A+)
- Aquatics Propagation Physiology; theory (96h) and practical (48h) Grade: 17/ 20 (A+)
- Aquatics Growth Physiology; theory (96h) and practical (48h) Grade:16.60/20 (A)
- Advanced Aquatics Nutrition; theory (96h) and practical (48h) Grade: 17.70/20 (A+)
- Sturgeons Culture and Propagation; theory (96h) and practical (48h) Grade: 17/20 (A+)
- Crustaceans Culture and Propagation; theory (96h) and practical (48h) Grade: (16.70/20) (A)
- Seminar (17.41/20) (A+)

Year 2 onwards – research thesis

Thesis Title: The embryonic and larval development of diploid and triploid hybrid between rainbow trout (*Oncorhynchus mykiss*) and Caspian salmon (*Salmo trutta caspius*) emphasizing RNA-sequencing techniques

a) Practical work for the thesis: carried out in the field in the experimental facilities and laboratories of Isfahan University of Technology.

b) September 2017 – March 2018 CCMAR for an internship to conduct analysis of samples for my PhD study program. Indeed, I have been granted from Iran's Ministry of science, Research and Technology to fund my internship at CCMAR, Algarve University, Portugal for 6-9 months.

2009-2012 Master of science in Aquaculture (Aquatics Culture and Propagation), University of Agricultural science and Natural Resources, Gorgan, Iran

Year 1: Two semesters of courses:

Application of Computer in Fisheries Science; theory (24h) and practical (24h) Grade: 17.50/ 20 (A+)

Seminar1- Aquatics Culture and Propagation; Grade: 20/20 (A+)

Advanced Breeding Aquatics Nutrition; theory (48h) and practical (48h) Grade: 16/20 (A)

Research method (Aquatics Culture and Propagation); theory (48h) and practical (48h)

Grade:14.75/20 (B)

Advanced Hydrobiology; theory (96h) and practical (48h) Grade: 16.50/20 (A)

Aquatics Physiology; theory (96h) and practical (48h) Grade: 19/20 (A+)

Live food culture and Propagation; theory (48h) and practical (48h) Grade: 16/20 (A)

Aquatics Farms Health management; theory (48h) and practical (48h) Grade: 14/20 (B)

Advanced Fish Culture and Propagation; theory (96h) and practical (48h) Grade: 16.50/20 (A)

M.Sc. Seminar (20/ 20) (A+)

Year 2 – Research project for thesis

Thesis Title: Effects of anthraquinone extracts of *Rheum palmatum* and *Rheum rebis* on growth, health and resistance of *Rutilus frisii kutum* to environmental stress

Thesis: Grade 19.70/ 20 (A+)

2006-2009 [Bachelor of science in Fishery, University of Chabahar Maritime and Marine Science, Chabahar, Iran](#)

Normally, Bachelor period is a four years period with 8 semesters in Iran that I have been successful to pass it in 3 years during 7 semesters. Below is the list of some courses during my BSc period;

Life Style; theory (48h) Grade: 20/20 (A+)

Pre-University English Language; theory (96h) Grade: 19.50/20 (A+)

Physical Education 1 (Swimming); practical (48h) Grade: 14/ 20 (B)

General Mathematics; theory (96h) Grade: 16.50/20 (A)

General Physics; theory (96h) and practical (24h) Grade: 17.50/20 (A+)

General Chemistry; theory (96h) and practical (24h) Grade: 16.50/20 (A)

Foreign Language (English); theory (96h) Grade: 19/20 (A+)

Organic Chemistry; theory (96h) and practical (24h) Grade: 18/20 (A+)

Statistics and Probability; theory (96h) Grade: 14/20 (B)

Ecology; theory (96h) and practical (24h) Grade:19.50/20 (A+)

Weather and Climatology; theory (96h) and practical (24h) Grade:16/20 (A)

Acquaintance with the Computer; theory (48h) Grade: 15/20 (A)

Zoology; theory (96h) and practical (24h) Grade: 17/20 (A+)

Specialized Language (English); theory (48h) Grade: 18/20 (A+)

Physical Education 2 (Swimming); practical (48h) Grade: 16/ 20 (A)

General Biochemistry; theory (96h) and practical (24h) Grade: 19.75/20 (A+)

General Botany; theory (96h) and practical (24h) Grade: 17.08/20 (A+)

General Economics; theory (48h) Grade: 18.50/20 (A+)

Recognizing and protecting the environment; theory (96h) and practical (24h) Grade: 19.50/20 (A+)

General Hydrobiology 1; theory (96h) and practical (24h) Grade: 18.60/20 (A+)

General Ichthyology; theory (96h) and practical (24h) Grade: 20/20 (A+)

Persian (literature); theory (96h) Grade: 19.50/20 (A+)

Family and Population Arrangement; theory (48h) Grade: 17/20 (A+)
Genetics; theory (96h) and practical (48h) Grade: 19/20 (A+)
General Microbiology; theory (96h) and practical (48h) Grade: 19.25/20 (A+)
General Hydrobiology 2; theory (96h) and practical (48h) Grade: 17.50/ 20 (A+)
Limnology 1; theory (96h) and practical (48h) Grade: 16.50/ 20 (A)
Principals of Aquaculture; theory (48h) Grade:15.50/20 (A)
Systematics Ichthyology; theory (96h) and practical (48h) Grade: 20/20 (A+)
Technical Drawing; theory (24h) and practical (24h) Grade: 17/20 (A+)
Environmental and Fisheries Management Rules; theory (48h) Grade: 19.25/20 (A+)
Assessment of Aquatics Resources; theory (48h) Grade: 20/20 (A+)
The principals of Navigation; theory (24h) and practical (24h) Grade: 16/20 (A)
Limnology 2; theory (48h) Grade: 15.50/ 20 (A)
Fish Culture and Propagation; theory (96h) and practical (48h) Grade: 17.50/20 (A+)
Principals of Aquatics Feeding (16.75 out of 20) (A)
Methods of Fish Prey; theory (48h) Grade: 19/20 (A+)
Hydrotechnics and Design of Ponds; theory (48h) Grade: 19/20 (A+)
Hydrochemistry; theory (48h) Grade: 20/20 (A+)
Aquatics Culture and Propagation; theory (48h) Grade: 16.50/20 (A)
Ecology of the Seas; theory (48h) Grade: 16.25/20 (A)
Fish Diseases and Parasites; theory (96h) and practical (48h) Grade: 18.25/20 (A+)
Geology; theory (96h) and practical (48h) Grade: 19.50/20 (A+)
Discussion Meeting; theory (24h) Grade: 19.50/20 (A+)
Animal Physiology; theory (96h) and practical (48h) Grade: 19/20 (A+)
Project: 19.50/20 (A+)

(The mark system in Iran:

The maximum mark is 20. In general Universities consider average of the marks. Marks must be upper than 10, and the average of marks must be upper than 14 for each semester. Depending on University, a good mark varies, but in most occasion 16 or higher is considered to be a good one.

A+: excellent: 17-20; A: very good: 15-16.99; B: good: 13-14.99; C: satisfactory: 11-12.12.99; D: acceptable: 10-10.99 (10: pass); E/F: Fail: less than 10)

Professional SKILLS

Animal manipulation skills	Fish handling and transferring (Papers A,B,C); Fish acclimation to environment (Papers A,B,C); Fish anaesthesia and biometry (Papers A,B,C) (The mentioned parts also related to two sturgeons, <i>Acipenser persicus</i> & <i>Huso huso</i> , and Salmonids, <i>Salmo trutta caspius</i> & <i>oncorhynchus mykiss</i> , larvae and juvenile); Transporting ova in artificial medium and sperm in aerated pack (recently, related to my PhD thesis); Surveying the brooders maturity and carrying brooders
Fish hatchery skills	Artificial breeding of rainbow trout, <i>Oncorhynchus mykiss</i> and Caspian salmon, <i>Salmo trutta caspius</i> ; Egg care during incubation time; Measurement of the environmental parameters (such as temperature, pH, nitrate, CO2 and water flow); Operating an independent semi-recirculation system for passing incubation period of Salmons eggs and producing larvae and juvenile through my PhD thesis (recently); Health management of hatchery
Molecular Biology skills	RNA extraction, RNA extraction, Familiar with qPCR
Fish immunity skills	Evaluating an environmental stress on fish immunity and health
Fish nutrition skills	Feeding larvae and juveniles of fish; Evaluating effects of dietary supplements on fish growth and immunity
Fish polyploidy and hybridization skills	Producing triploid hybrids of Rainbow trout and Caspian salmon
Haematological skills	Blood sampling and counting blood parameters
Biochemistry skills	ELISA, Cortisol assay, TBA measurement, Total protein, lipase, amylase and trypsin assay
Medicinal plants chemistry skills	Plants extraction, extracting anthraquinone compounds from two plants
Meta-analysis skills	Microbiome
Computer skills	Independent user, extensive knowledge of standard office software; Familiar with Photoshop and SPSS, Familiar with basics of R

PERSONAL SKILLS

Mother tongue(s) Persian

Other language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Levels: Basic user A1 - Basic user A2 - Independent user B1 - Independent user B2 - Proficient user C1 - Proficient user C2					

Publications

- Najafpour, B., Dorafshan, S., Paykan Heyrati, F. and Power D.M. 2019. Embryonic development of the endangered Caspian brown trout, *Salmo trutta caspius* (Kessler, 1877). *J Appl Ichthyol.* 2019;00:1–7.
- Najafpour, B., Imanpour, M.R. and Shabani, A. (2012). Effects of *Rheum rebis* extract on the blood parameters and responses of *Rutilus frisii kutum* under heat stress. *Global Veterinaria*, 8 (3): 222-228. (Paper A)
- Najafpour, B., Imanpour, M.R. and Shabani, A. (2012). Effects of *Rheum palmatum* L. root extract on the blood parameters in responses to two high heat stress and lipid oxidation of *Rutilus frisii kutum*. *Global Veterinaria*, 8 (2): 197-204. (Paper B)
- Najafpour, B., Imanpour, M.R. and Shabani, A. (2012). Effects of anthraquinone extract from *Rheum palmatum* on growth indices of *Rutilus frisii kutum*, *Africa Journal of Animal and Biomedical Sciences.*7(1). (Paper C)
- Imanpour, M.R. and Najafpour, B. (2012). Rice- Fish culture. Tehran, Ainenema, 170p
<https://scholar.google.pt/citations?user=4cddvgsAAAAJ&hl=pt-PT>

Conferences

- Poster presented at international conference of Aquaculture Europe 2019. Najafpour B., Cardoso, J. C., Canário A. V.M. and Power, D. M 2019. Evolution of complement system in fish.
- Oral presented at 1st National Congress of Industry and Food Hygiene with Animal Origin in Qom, Iran. Najafpour, B., Imanpour, M. R. and Shabani A. (2012). Effects of rhubarb (*Rheum palmatum* L.) root extracts on lipid oxidation of *Rutilus frisii kutum*, 1988.
- Two posters presented at 1st National Congress of Industry and Food Hygiene with Animal Origin in Qom, Iran,
- Najafpour, B., Imanpour, M. R. and Shabani A. (2012). Effect of Anthraquinone extract from *Rheum ribis* on White and Red blood cell of *Rutilus frisii kutum* under heat stress.
- Najafpour, B., Imanpour, M. R. and Shabani A. (2012). Effects of Anthraquinone extract of *Rheum palmatum* L. on White blood cell of *Rutilus frisii kutum*.

Projects/Grants

I was received a Grant from Ministry of Science, Research and Technology to do a part of my thesis “The larval development of diploid and triploid hybrid between rainbow trout (*Onchorhynchus mykiss*) and Caspian salmon (*Salmo trutta*) emphasizing RNA-sequencing technique” abroad.

Seminars

- Application of Prebiotic, probiotic and symbiotic in aquaculture, B.Sc. 2008
- Rice-fish culture, M.Sc. 2010
- Application of RNA-seq in aquaculture, PhD. 2016

Memberships

Member of Iranian Society of Ichthyology, since 2014