



## Ákos Horváth

**Nationality:** Hungarian **Date of birth:** 17/9/1973 **Gender:** Male

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**Website:** <http://fishreprodsziu.blogspot.hu>

**Work:** Páter Károly utca 1., 2100 Gödöllő (Hungary)

### WORK EXPERIENCE

#### **Professor of Aquaculture, Department Chair, Deputy director of Institute for science**

*Hungarian University of Agriculture and Life Sciences, Department of Aquaculture* [ 1/2/2021 – Current ]

City: Páter Károly u. 1., 2100 Gödöllő

Country: Hungary

Coordination of scientific research, teaching, coordination of projects on national and international level as well as coordination of work at the Department of Aquaculture.

#### **Professor of Aquaculture**

*Szent István University, Department of Aquaculture* [ 1/9/2019 – 31/1/2021 ]

City: Páter Károly u. 1., 2100 Gödöllő

Country: Hungary

Coordination of scientific research, teaching, coordination of projects on national and international level

#### **Research scientist (Assistant professor with research appointment)**

*Szent István University, Department of Aquaculture* [ 1/7/2003 – 31/8/2007 ]

City: Páter Károly u. 1., 2100 Gödöllő

Country: Hungary

Scientific research in aquaculture technology and genetics as well as cryobiology, teaching

#### **Senior scientist**

*Szent István University, Department of Aquaculture* [ 1/9/2007 – 31/8/2019 ]

City: Páter Károly u. 1., 2100 Gödöllő

Country: Hungary

Coordination of scientific research, teaching, coordination of projects on national and international level

#### **Post doctoral fellow with a Fulbright scholarship**

*Aquaculture Research Station, Louisiana Agricultural Experiment Station, Louisiana State University* [ 1/2/2003 – 30/6/2003 ]

City: 2410 Ben Hur Road, LA 70820 Baton Rouge

Country: United States

Scientific research in aquaculture and cryobiology

## Research associate

*Szent István University, Department of Aquaculture* [ 1/10/2000 – 31/1/2003 ]

City: Péter Károly u. 1., 2100 Gödöllő

Country: Hungary

Scientific research in aquaculture and cryobiology, teaching

## EDUCATION AND TRAINING

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### PhD in Agriculture

*Szent István University* [ 1/9/1997 – 22/6/2001 ]

Address: Péter Károly utca 1., 2100 Gödöllő (Hungary)

Field(s) of study: Agriculture, forestry, fisheries and veterinary

Aquaculture, fish gamete biology, fish gamete preservation, cryopreservation

### MSc in Agriculture

*Gödöllő University of Agricultural Sciences* [ 9/1992 – 6/1997 ]

Address: Péter Károly u. 1., 2100 Gödöllő (Hungary)

### Training in Asian sea bass reproduction and sperm cryopreservation

*Temasek Life Sciences Laboratory* [ 9/3/2008 – 16/4/2008 ]

Address: 1 Research Link, 117604 Singapore (Singapore)

### Training in reproduction and sperm cryopreservation of tropical fish species

*Temasek Life Sciences Laboratory* [ 27/7/2009 – 29/8/2009 ]

Address: 1 Research Link, 117604 Singapore (Singapore)

## LANGUAGE SKILLS

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Mother tongue(s): **Hungarian**

Other language(s):

#### English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

#### Serbian

LISTENING A2 READING B2 WRITING B1

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

#### French

LISTENING A1 READING B2 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

#### Croatian

LISTENING A2 READING B2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## HONOURS AND AWARDS

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### Doctor of the Hungarian Academy of Sciences

Hungarian Academy of Sciences [ 12/2019 ]

### Habilitation

Szent István University [ 2016 ]

## COMMUNICATION SKILLS

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### Communication skills

Good communication skills, especially when working in an international environment. These were gained by working in the United States and Singapore for longer periods of time (over 1 month) and shorter stays in various countries throughout the world.

## ORGANISATIONAL SKILLS

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### Organisational / managerial skills

I am currently the deputy director for science of the Institute of Aquaculture and Environmental Safety as well as Chair of the Department of Aquaculture. I have been coordinating 6 major national projects during the past 10 years. I was responsible for the coordination of the Hungarian team (6 scientists) participating in the project CytoThreat (Grant Agreement no. 265264) funded by the 7th Framework Programme of the European Union. I have also been responsible for the organization of the 3rd International Workshop on the Biology of Fish Gametes that was organised on 7-9th

September, 2011 in Budapest and Gödöllő, Hungary. I was also the vice-chair of the COST Action FA1205 AQUAGAMETE. Currently coordinated projects include:

- NKFIH (formerly OTKA) K129127: Inherited cryoresistance of fish sperm, budget: 44.6 million HUF (111,190 EUR)
- NKFIH (formerly OTKA) K138425: Research towards in vitro gonads in freshwater fish, budget 47.7 million HUF (118,800 EUR)
- 2019-2.1.11-TÉT-2020-00247: Cryopreservation of gametes and larvae of marine bivalvian species of commercial and environmental interest, budget 2 million HUF (5,291 EUR)

## JOB-RELATED SKILLS

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### Job-related skills

I am trained in general aquaculture activities (hatchery work, induced spawning of fish, harvesting) primarily in pond aquaculture, however I have experience in working with intensively cultured fish (African catfish, trout), as well. These were gained by working at aquaculture farms and research stations in Hungary and abroad. In addition, I have been working for over 15 years with the cryopreservation of fish sperm and have wide experience in techniques assisting cryopreservation (Computer-Assisted Sperm Analysis, sperm viability testing, Comet assay, etc.). I have developed cryopreservation methods for the sperm of over 20 cultured fish species, including sturgeons, cyprinids, catfishes and salmonids. I have training in chromosome preparation and chromosome set manipulation (androgenesis, gynogenesis) techniques. Recently, I have gained extensive knowledge in the practical aspects of conservation of endangered fish species and population genetics.

## COMPUTER SKILLS

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### Statistical software

GraphPad Prism statistical software / R statistical software basic skills

### Office Suites

- Apple iWork (Pages, Numbers, Keynote) advanced user
- MS Office (Word, Excel, Powerpoint) advanced user
- Other office suites (LibreOffice, OnlyOffice) advanced user

## **Typesetting and graphical image processing**

- Pixelmator Pro graphical software
- LaTeX2e advanced user

## **Operating systems**

- Apple macOS user
- Ubuntu Linux user
- Microsoft Windows user

## **DRIVING LICENCE**

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**Driving Licence:** B

## **PUBLICATIONS**

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**121 publications in the Web of Science, 1067 citing articles**

## **MEMBERSHIPS**

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**member of the Society for Cryobiology (1999, 2020 – present)**

**member of the World Aquaculture Society (2005 – present)**

## **OTHER SKILLS**

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### **Other interests**

I am interested in nature photography and attended a course by several noted Hungarian nature photographers (Sándor Zsila, Bence Máté). My hobbies include photography, trekking and angling. I also have a Tour Guide permit, acquired during training in secondary school.