


# CV: Ana Gavrilović

Group	Item	Input (fill in your data here)
Personal Info	Name	Ana Gavrilović
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	Gender	female
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	Photo	
	CV data	Education

(January, 2011) at the Faculty of Veterinary Medicine; University of Zagreb, Croatia

**CV Data**

**Teaching Experience**

**Juraj Dobrila University of Pula, Department of Natural and Health Studies, Marine Science Study**

**April, 2016 – Present**

**Assistant Professor, Coordinator of the Marine Science Study**

**Course Leader:** Mariculture, Seafood Safety and Quality, Physiology, Ecophysiology

**University of Dubrovnik, Department of Aquaculture:**

**November, 2011 – March, 2016**

**Assistant Professor**

**Course Leader:** Health Management in Aquaculture; Production and Quality Standards in Aquaculture; Aquatic Animal Diseases; Physiology of Aquatic Animals; Physiology of Stress and Adaptation; Aquaculture Practice I; Microbiology

**February, 2011- October, 2012:**

**Higher Assistant and Lecturer**

**Courses:** Production and Quality Standards in Aquaculture, Health Management in Aquaculture, Diseases of Aquatic Animals

**May, 2006 - January, 2011:**

**Assistant and Lecturer**

**Courses:** Production and Quality Standards in Aquaculture; Health Management in Aquaculture

**October, 2004 – April, 2006 :**

**Research Assistant**

**Established and held the courses:** Production and Quality Standards in Aquaculture; Health Management in Aquaculture;

**Assisted on the courses:** Physiology of Aquatic Animals and Ecotoxicology.

**Industrial experience**

**July, 2008 – November, 2014:**

**Head of Research and Development at the Technology and Business Innovation Center for Mariculture MARIBIC, Ston, Croatia**

Main responsibilities: developmental projects and creation of the projects according to the needs of aquaculture industry; technological projects and studies for aquaculture producers and processors; Environmental monitoring of the shellfish farming

locations; aquaculture health and waste management; GHP/GMP and HACCP programs for SME's, etc.

**December, 1995 – September, 2004:**

**Border Veterinary Inspector** at the Border Crossing Doljani; Inspection Services Department; Federal Ministry of Agriculture, Water Management and Forestry of the Federation of Bosnia & Herzegovina

**Member of the Working Groups, Invited Lectures and Consultant Engagements:**

**July, 2016:**

**Invited Teacher – Grant CEEPUS free-mover for “Bivalve farming technologies”**

Summer course HU-03 @groen Network: "New fields, advances and innovation in aquaculture and fisheries", Szent Istvan University, Godollo-u, Hungary

**2013 – 2015: Senior expert with obligation to create complete teaching material for the “Fish health” course for the project financed by ESF (European Social Fund) 3.102 – Program Development of Diploma in Fish Husbandry for MCAST (Malta College of Art, Science and Technology).**

**March – June, 2014:**

**Short-term Expert for the World Bank**

CIIP Croatia Smart Specialization– World Bank. Main Task: Oyster Case Study “Malostonska kamenica“ preparation).

**2014:**

**Member of the Working group for further development of the ICZM guidelines** in

Dubrovnik-Neretva county under the project COASTGAP (Coastal Governance and Adaptation Policies in the Mediterranean)

**2011:**

**Member of the Working group for drafting the guidelines for integrated coastal zone management for Dubrovnik-Neretva County** during the EU COASTANCE project (Regional action strategies for coastal zone adaptation to climate change).

**Membership in professional bodies:**

World Aquaculture Society  
Fish Culture Section – AFS  
US National Shellfisheries Association  
CroLASA

**Member of editorial board in scientific journals:**

Croatian Journal of Fisheries (associate editor)  
AAFL BIOFLUX Aquaculture, Aquarium,  
Conservation & Legislation - International Journal  
of the Bioflux Society (scientific reviewer)

**Member of comities:**

Chair of Organizing Committee for the European  
Aquaculture Society Conference Dubrovnik 2017

Member of Organizing Committee for 46th WEFTA  
(West European Fish Technologists' Association)  
CONFERENCE „From Local Fish to Global DISH“ 12-  
14 October 2016, Split, Croatia

**Additional education and professional training:**

**Professional training in the Department of Pathology and Immunology of the National Inland Fisheries Institute, Piaseczno, Poland (application of new methods of aquatic animals immunisation, fish health management and microbiological diagnostic) (May 6th – May 15th , 2013)**

**Professional training in the Veterinary Research Institute Brno, Department of Toxicology, Czech Republic (use of PCR, RT – PCR in ecotoxicology and aquatic animal diseases and disorders diagnostic) (June, 10th – June 25th, 2012)**

**Course “ISO 22 000”, organized by Qualitas, Zagreb, Croatia (October, 2009)**

**Advanced course “Marketing of seafood products: trends and challenges”, organized by CIHAEM, held in Zaragoza, Spain (12-17 November 2007)**

**Workshop «Perspectives of Flat Oyster from Mali Ston Bay» organized by University of Dubrovnik, held in Mali Ston, Croatia; December, 2006 (Active participation with report „Health and public health status of European flat oyster Ostrea edulis from Mali Ston Bay – Reuslts of monthly**

monitoring“)

**Advanced course “Traceability of fish and fish products: Technologies and management systems”, organized by CIHAEM in cooperation with FAO and INFOSAMAK, held in Zaragoza (17-21 October 2005)**

**Workshop “Integrated sustainable aquaculture in the coastal zone” organized by IOR Split, Croatia, IFREMER and INTECHMER, France, and held in Split, Croatia, 1-2 June 2005 (active participation)**

**Advanced course “Traceability and food labeling meeting food safety and market requirements” organized by CIHAEM (held in Zaragoza, Spain, 14-18 March 2005)**

**Advanced course “Quality assurance in agro-food marketing: normative, systems and business implications” organized by CIHAEM (held in Zaragoza, Spain, 7-11 March 2005)**

**Practice in the Laboratory for shellfish pathology of IFRAMER, Sete, France (20 Nov.-22 Dec. 2004)**

**Training course “Animal identification and movement control scheme” organized as a part of EU PHARE AIMCS project (Jahorina, BiH, April, 2003)**

**Workshop with international participation « Flat Oyster – Croatian Challenge for European Market» organized by University of Dubrovnik and supported by NTTU, Norway (held in Mali Ston, Croatia; March, 2003)  
(Active participation with report « Situation regarding trace metals in oysters and mussels in Mali Ston Bay»)**

**Workshop “The Role and Future Development of AW CE”, which was held as a part of COAIM at FAO Headquarters in Rome, Italy (June, 2000).**

**Group training course “Assurance of Food Safety and Quality Control” (organized by Japan International Cooperation Agency-JICA); Kobe, JAPAN (Aug-Dec, 1999).**

**The main goals of the above mentioned course were to improve understanding of present status of importing and exporting foods**

and International Low (WHO) on food hygiene from farm to table; understanding and acquiring techniques of quality control on ISO and HACCP systems and monitoring in food manufacturing factories as well as inspection techniques, particularly analysis by instruments including knowledge on mycotoxins, main pathogenic microbes, pesticides, food additives and other toxic substances from agricultural products to food stuff.

**“AgroWeb (AW) CEE Workshop”** (organized by FAO SEUR for CEE in cooperation with IAALD), Goddolo, Hungary (Apr, 1999).

**Workshop “Woman's Participation in Policy-making processes in rural Communities”**, organized by FAO Regional Office for Europe (REU) in cooperation with FAO's Women in Development Service (SDWW) and Royal Ministry of Agriculture of Norway and held in Gausdal, Norway (May, 1998).

**“Web master training course”** organized by FAO SEUR for Central and Eastern Europe (CEE) with goal to improve exchange of information at the field of agriculture between countries of CEE. Mentioned workshop was held in Nitra, Slovakia (Apr, 1998).

**Workshop “Veterinary Public Health”**, Neum, Bosnia & Herzegovina (Feb, 1997.)

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## PROJECTS

**Preparation of structural projects for EU funds:**

**“Center of competence for quality improvement, diversification and development of aquaculture products”**

(2012-2014). Croatian Cluster of Competitiveness of Food Processing Sector (under the Croatian Ministry of Economy) selected this project as a project of national interest; project with the highest score on the list of structural projects for technical support of the Ministry of Regional Development and EU funds.

**“Reconstruction and Equipping of Mariculture Business Innovation Center”**

(2010 – 2012). Project selected for technical support from the Croatian Ministry of Rural Development and EU funds.

**Scientific and applied projects:**

Scientific project **“Aquatic microbial ecology as an indicator of the health status of the environment” (AQUAHEALTH) financed by Croatian Science Foundation (2015-2018).**

PoC (Prove of Concept) project **“Application of biopreservation methods on aquaculture products – an ecological approach to food safety improvement and shelf – life extension” (2014-2015).** (project leader)

Project **“Introduction of new technologies in shellfish cultivation”** (2010-2013). The main goals of this project: introduction of semi- offshore farms in Croatia and predator protection system design. **(coordinator of the biological component of the project)**

**Project: „Gornji Majkovi –Lokve: characteristics of the habitat of the turtle *Mauremys rivulata*“** (2013). Project financed by Dubrovnik-neretva County **(researcher for the ecotoxicological component of the project)**

**Project ECONOMIC EVALUATION OF Anguilliformes FISH: eel (*Anguilla anguilla*), moray (*Murena helena*), conger eel (*Conger conger*) and weeverfish (*Trachinus sp*)** (2009 -2012), researcher (project leader prof. dr. sc. Boško Skaramuca)

Project **“Protection of the Mali Ston Oyster Production by Determining Autochthony”** (2009-2010), financed by the Ministry of Agriculture, Fisheries and Rural Development. The basic goal of the project is to establish the genetic characteristics of the Mali Ston Oyster, and the specificity of its quality and the quality of the surrounding sea so that specifications for the protection of the product on the market can be made. The project is being carried out in cooperation with the shellfish farmer’s Association “Stonski školjkari”, therefore forming a link between science, technology and industry and confirming the basic purpose of its formation. The project holder is the Institute “Ruđer Bošković” and the project is being realized on MARIBIC grounds, as a partner institution **(coordinator in front of the partner institution)**

The pilot project „**Commercial Production of the Warty Venus (*Venus verrucosa*)**“ (2009-2011) is financed by the United Nations Development Program. The project holder is MARIBIC, and the main goal of the project represents the improvement of hatchery technology and development of technology for the culture of Warty Venus larvae so that this commercially significant shellfish species could be used for aquaculture purposes. The project is being done in cooperation with the Association “Stonski školjkari” (**project coordinator**)

The project „**Characteristics of Farming Locations on the Basis of Monitoring Growth, Condition Index, Health Status and Sexual Development of Cultured Populations of Oysters and Mussels in The Mali Ston Bay Region**” (2008-2009), financed by the Dubrovnik-Neretva County. Project holder: MARIBIC. The research program was developed on the basis of the problems observed in shellfish production in the region of Maliston Bay, as well as the need for the implementation of new monitoring methods according to the example set by countries with developed shellfish industries in the EU (e.g. France). The entire area of Mali Ston Bay and Malo More are included (7 stations, two sampling depths) and the following parameters are measured: nutrients, chlorophyll, particulate matter, condition index of oysters and mussels, biofouling, plankton larvae, state of gonads, health status, hydrographical data, and an estimate of damage from predators (**coordinator of the project activities**)

The project: “**Design of the Distribution Center for Shellfish With Purification System in Bistrina**” (2008- 2009), financed by Dubrovnik- Neretva County. Project Holder: MARIBIC. Goal: the design and construction of the distribution and purification facility for shellfish.

Scientific project “**Reproductive, genetic and farming characteristics of the organisms of interest for mariculture**” / Reproaktivne, genetičke i uzgojne značajke organizama zanimljivih za marikulturu“ (2007- 2012)

The project “**Public Oyster Broodstock**” (2003 - 2006), financed by Dubrovnik- Neretva county. Project goals: Evaluation of the effect of forming



oyster broodstock on the increase of the reproductive capacity of oyster populations in the Bay of Mali Ston; research on the reproductive cycle of the Mali Ston Oyster.

VIP project **“Production of Mali Ston Oyster Spat”** (2004 – 2006), financed by the Ministry of Science, Education and Sports of the Republic of Croatia. Project goals: Selection of Mali Ston Oyster broodstock, culture of algae, flagellates and diatoms, culture of larvae and oyster spat that has undergone metamorphosis.

Program TEST **“Experimental Trial Production of Oyster spat”** (2004 – 2007). The project holder is the University of Dubrovnik. Main goals: to construct, equip and commence operation of a trial shellfish hatchery together with algae facility design (as a shellfish food). Project was performed in MARIBIC’s facilities

Project of FAO SEUR for CEE **“Agro web CEE”** (**country representative** - Bosnia and Herzegovina); 1998-2000.

**Languages:**

Native language	Croatian
English listening	C2
English reading	C2
English spoken interaction	C2
English spoken production	C2
English writing	C2
Basic knowledge (A2):	Spanish and German

**Skills & competences**

Personal	Broad-minded, confident, adaptable, cooperative, hardworking, independent, innovative, responsible
Social	Good communication skills, team work, excellent negotiation skills
Organizational	Systematic and analytical approach to work, project management and implementation
Technical	-Scientific and applied research in aquaculture, especially in the area shellfish farming -Research and Development plans, projects and technology studies for aquaculture and

	<p>aquaculture processing facilities</p> <p>-Environmental monitoring</p> <p>-Development of GHP and HACCP plans and protocols</p> <p>-Development of programs and protocols for aquatic animal health management</p> <p>-Laboratory/diagnostic techniques: RT-PCR, PCR, spectrophotometry, AAS, histology, histochemistry, western-blotting, etc.</p> <p>-Animal by-products and waste water treatment and it's reuse as a renewable energy sources</p> <p>-Teaching and training students and aquaculture personnel</p>
Computer	MS Office, image processing programs, web pages design, DUEL and other systems for e-learning, etc.
Artistic	writing
<b>Achievements</b>	<p><b><u>Intellectual property:</u></b></p> <p><b>2015. National patent application (P20151411A):</b> Formulation, method of preparing, and the use of a marinade of bitter oranges with <i>Lactobacillus plantarum</i> O1 for the preservation of fish and seafood.</p> <p><b>2013: Registration of industrial design</b> (EU, Croatia, Turkey) of the platform components (1-4. Floating platform modules; DM/080 895; International Designs Bulletin No. 21/2013)</p> <p><b>2013: National patent application</b> (P20130562A) for the spat cultivation process ("oyster farming procedure"). Accepted in September 2014.</p> <p><b><u>Publications:</u></b></p> <p>Barišić, J., Čož-Rakovac, R., Delaš, I., Topić Popović, N., Gavrilović, A., Jug-Dujaković, J., Brailo, M., Sauerborn-Klobučar, R., Babić, S., Strunjak-Perović, I. (2016): Predictive modeling of European flat oyster (<i>Ostrea edulis</i> L.) fatty acid composition. <i>Aquaculture International</i>, 24 (2016): 1-21.</p> <p>Gavrilović, A., Frece, J., Markov., K., Jug-Dujaković, J. (2016): DEVELOPMENT AND EVALUATION OF MARINADE ON THE BASIS OF BITTER ORANGE WITH <i>Lactobacillus Plantarum</i> O1 FOR BIO-PRESERVATION AND FLAVORING OF SEA FOOD Proceedings of the 46th WEFTA (West European Fish Technologists' Association) CONFERENCE</p>

„From Local Fish to Global DISH“ 12-14 October 2016, Split, Croatia, p. 131-132.

Čanak, I., Gavrilović, A., Markov, K., Jug-Dujaković, J., Jakopović, Ž., Frece, J. (2016): Biopreservation of Fish and Shellfish Using Indigenous Strains of Lactic Acid Bacteria. Proceedings of the conference: „Power of Microbes in Industry and Environment“ (eds: Mrša, Vladimir ; Teparić, Renata ; Kifer, Domagoj). Recedo digital j.d.o.o, 2016. P. 76-76.

Gavrilović, A., Jug-Dujaković, J. 2016. Analysis of the shellfish purification systems efficiency/Analiza efikasnosti purifikacijskih sustava za školjkaše. 51<sup>th</sup> Croatian & 11<sup>th</sup> International Symposium on Agriculture. Pospišil, Milan (ed.). Opatija, February, 15 -19. 2016.

Jug-Dujaković, J., Gavrilović, A. 2016. Design Criteria for Closed Recirculation Systems in Aquaculture/ Osnovni kriteriji dizajna recirkulacijskih akvakulturnih sustava. 51<sup>th</sup> Croatian & 11<sup>th</sup> International Symposium on Agriculture. Pospišil, Milan (ed.). Opatija, February, 15 -19. 2016.

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Gavrilović, A., J. Jug-Dujaković. ( 2014). Uloga Sveučilišta u Dubrovniku u razvitku i modernizaciji akvakulture Dubrovačko-Neretvanske regije/ The role of the University of Dubrovnik in development and modernization of aquaculture in Dubrovnik.Neretva Region. Zbornik Sveučilišta u Dubrovniku. Vrtiprah, V. (ur), Sveučilište u Dubrovniku. 55-82 str.

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Gavrilović, A., Jug-Dujaković, J., Conides, A., Kunica, V., , A. (2014): Growth and survival of mussel, *Mytilus galloprovincialis* (Lamarck, 1819) under two different cultivation systems. 49. Croatian & 9th International Symposium on Agriculture: Proceedings and plenary session / Lončarić, Z. & Marić, S. (ed.). Dubrovnik, February, 16 -21. 2014.

Jug-Dujaković, Jurica, Gavrilović, Ana, Orepić, Manuela, Conides, Alexis, Bobanović, Joško (2012) Feed Conversion Efficiency in the Cage Culture of Mediterranean Sea Bass, *Dicentrarchus labrax* (Linnaeus, 1758). 47. Croatian & 7th International Symposium on Agriculture: Proceedings and plenary session / Pospišil, Milan (ed.). Opatija, February, 13 -17. 2012. 595 – 599.

Gavrilović, Ana, Jug-Dujaković, Jurica, Conides, Alexis, Mikuš, Josip, Ljubičić, Ana (2012): The Study of the Condition Index of Baby Clam *Chamelea gallina* (Linnaeus, 1758) from the Nertva River Estuary and Comparison of Different Methods of its Calculation. 47. Croatian & 7th International Symposium on Agriculture: Proceedings and plenary session / Pospišil, Milan (ed.). Opatija, February, 13 -17., 2012. pp. 586 – 590.

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Steven. Biogas - a cost-effective way of economic disposal of fish waste /Bioplin – način gospodarski isplativog zbrinjavanja ribljeg otpada. Proceedings of the VIII Convention on the freshwater aquaculture. Croatian Chamber of Commerce (ed.). Vukovar, April 19 -20., 2012. pp. 92.

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