



## Europass Curriculum Vitae

### PERSONAL INFORMATION

First name(s) / Surname(s)	<b>Craciun Nicolai</b>
Address(es)	220 Olteniței str., Bl. 8, Sc. B, Ap. 105, Sector 4, Bucharest
Telephone(s)	Mobile: 0040742357717; 0040732648098
E-mail	Nicolai.craciun@yahoo.com
Nationality	Romanian
Date of birth	29 <sup>th</sup> of November, 1961
Gender	Male

### EDUCATION AND TRAINING

The period	1968-1972
Name and type of organisation providing education and training	Plutonița primary school, Frasin commune (today the town of Frasin),
The period	1972-1976
Name and type of organisation providing education and training	Doroteia General School - Frasin town - gymnasium
The period	1976 - 1980
Title of qualification awarded	Baccalaureate diploma - head of promotion
Name and type of organisation	Forestry Lyceum Câmpulung Moldovenesc
The period	1980 - 1982
Activity	Mandatory Military Service
The period	1982 – 1986
Title of qualification awarded	Biology Bachelor's degree
Principal subjects/occupational skills covered	Biology, ecology, taxonomy
Name and type of organisation	Faculty of Biology, University Al. Ioan Cuza, Iași
The period	1986 - 1987
Title of qualification awarded	Master
Principal subjects/occupational skills covered	Cell biology, molecular biology, population genetics, eco-genetics, human genetics
Name and type of organisation	Faculty of Biology, University of Bucharest
The period	October 1, 1987 - December 30, 1988
Principal subjects/occupational skills	Postgraduate internship mandatory with dual government distribution (head of promotion)
Name and type of organisation	Bărcănești Greenhouse Enterprise, Prahova County
The period	January 1, 1989 - July 15, 1990
Title of qualification awarded	Scientific researcher (C.S.3)
Principal subjects/occupational skills covered	Continuation of the mandatory assignment stage in scientific research
Name and type of organisation	Bucharest - Ștefănești Forestry Research and Development Institute Forest Protection Department

The period	July 15, 1990 - January 30, 1991
Title of qualification awarded	Ph.D. Degrees in Zoology-Zoogeography
Principal subjects/occupational skills covered	Registration for the doctorate under the leadership of Dr. professor, academician Petru Bănărescu with the topic "Research on comparative ethology of some species of marine fish and freshwater from the ichthyofauna of Romania".
Name and type of organisation	Institute of Biological Sciences, Department of Aquatic Ecology
The period	30.01.1991 - 2003
Title of qualification awarded	University assistant by competition at the Department of Animal Biology, vertebrate zoology discipline
Principal subjects/occupational skills covered	Fish ethology, zoogeography; ichthyology; ornithology
Name and type of organisation	Faculty of Biology, University of Bucharest
The period	30.08.2003- Present
Title of qualification awarded	<b>Lecturer</b>
Principal subjects/occupational skills covered	Research, education
Name and address of employer	Faculty of Biology, University of Bucharest

Mother tongue(s)		Romanian									
Other language(s)											
Self-assessment		Understanding				Speaking				Writing	
European level (*)		Listening		Reading		Spoken interaction		Spoken production			
English		A2	beginner, intermediate	A2	beginner, intermediate	A2	beginner, intermediate	A2	beginner, intermediate	A2	beginner, intermediate
French		A2	beginner, intermediate	A2	beginner, intermediate	A2	beginner, intermediate	A2	beginner, intermediate	A2	beginner, intermediate
German		B2	advanced	B2	advanced	B1	advanced	B1	advanced	B1	advanced

<b>Social skills and competences</b>	Communication, coordination, team work skills
<b>Organisational skills and competences</b>	Team work and well organized, due to the experience gained during high school; Scientific and experimental activities.
<b>Technical skills and competences</b>	Microscope - Advanced Electrofishing - Advanced
<b>Computer skills and competences</b>	Use computer - beginner
<b>Other skills and competences</b>	Participation in research projects aimed at the study of human impact on biodiversity.
	Publication of scientific articles in the field of environmental impact and the use of various animal species as potential indicators of the environment (see Annex - published works).
	Conducting environmental impact studies (see Appendix - Impact Studies).
<b>AWARDS, DIPLOMAS, DISTINCTIONS</b>	<ul style="list-style-type: none"> <li>- Diplomas of awards and mentions at the national biology olympiads in 1977, 1978, 1980.</li> <li>- Ford Award 2002 &gt;First Prize for Fluvial Design</li> <li>- Prize obtain by laboratory at the official opening of Discovery and Animal Planet in Romania, in 1998</li> </ul>

Work experience	
<p>The period Occupation or position held Work place Type of business or sector</p>	<p>1980 - 3 month forestry trainee practitioner Frasin, Suceava Practice</p>
<p>The period Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector</p>	<p>01.10.1987 - 30.12.1988 Obligatory postgraduate internship with dual government distribution (head of promotion) Initiation of methods for biological pest control - phytophagous insects that destroy crops in protected areas Bărcănești Greenhouse Complex, Prahova County research</p>
<p>The period Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector</p>	<p>01.01.1989 - 15.07.1990 Scientific researcher CS3 The further stage of mandatory distribution in scientific research Forest Research and Management Institute - ICAS Bucharest, Laboratory of Forest Protection research Forestry research</p>
<p>The period Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector</p>	<p>15.07.1990 - 30.01.1991 Doctoral student Comparative ethology research of some marine fish and freshwater species from the ichthyofauna of Romania Institute of Biology of the Romanian Academy, Laboratory of Aquatic Ecology Doctoral research</p>
<p>The period Occupation or position held Main activities and responsibilities Name and address of employer</p>	<p>30.01.1991 - 30.08.2003 University Assistant Research, education University of Bucharest, Faculty of Biology, Department of Animal Biology</p>
<p>The period Occupation or position held Name and address of employer Type of business or sector</p>	<p>30.08.2003 to present Lecturer University of Bucharest, Faculty of Biology, Department of Animal Biology Research, education</p>
TEACHING ACTIVITY AT THE FACULTY OF BIOLOGY	
1991-2007	Practical works of Vertebrate Zoology
From 2000 - present	Ornithology course taught in the fourth year Animal Biodiversity Course taught in the fourth year
From 2008 - present	A Ornithology course taught in the first year Principles of Museology course, Faculty of Biology, taught at the second year Master
SCIENTIFIC RESEARCH ACTIVITY	
1982 - 1986 - conducting research on systematic zoology and taxonomy, biometrics for the characterization of rodent and insectivorous mammal populations from the upper limit of coniferous forest vegetation in the Călimării Mountains, Suceava County; Biometrics study of the population of <i>Microtus agrestis</i> , Fam. Microtidae, Ord. Rodenția, Cl. Mammalia, from the Calimani Massif	
1982—1986 - Hydrobiological characterization of the Neagra Șarului river in the Călimani Mountains;	
1987-1989 - applied research activities for biological control of harmful insects in the greenhouse in the Bărcănești Greenhouse Complex, acclimatization and growth of the hyperparasitic insect <i>Encarsia formoset</i> ; Ord. Hymenoptera, in order to biologically control harmful insects in the greenhouse;	
1989-1990 - Pest research and xylophagous insect attack rate goat moth ( <i>Cossus cossus</i> ) from Romania and establishing the efficiency of the applied chemical treatments, in order to improve the health condition of the goat moth in Romania;	
1989-1990 - Research of parasitic fungi of the genus <i>Nectria sp.</i> , In beech forests and beech mixtures with conifers;	
1989-1990 - The influence of the beech leaf throbomb ( <i>Orchestes fagi</i> , Family. Curculionidae, Order. Coleoptera) on the annual growth of beech trees in Suceava County;	
1990-1997 - ethological research on the behavior of fish in the Romanian fauna;	
1986 - 2008 - continuous research on biodiversity and education activities, scientific research of the Comana wetland and the Valea Vâlsanului reservation;	

**2006 - Participation in the EU Life - Nature Contract, from Domogled-Valea Cernei National Park, "Saving *Pinus nigra banatica* habitats" part of the Natura 2000 Network, being coordinator; subcontract signed with the Caras-Severin Environmental Protection Agency, Resita;**

## OTHER ACTIVITIES

July 1974 - Declaration of my own private scientific reservation and realization of the declaration between the reunited family members on the common private property of my family that operates on the surface of 6 ha of coniferous, deciduous mixed forest, mountain hay vegetation, Plutonița village, Frasin town.
1983 - 1990 - Initiation of an NGO for the conservation and rescue of scientific reserves remaining from 1974 without scientific administration and academic coordination, for the rescue of very rare species of flora and fauna, within the biology faculty of Univ. Al. I. Cuza Iași, on which occasion I managed to organize volunteering in the Commission of Natural Monuments, Moldova Branch with 273 new CMN custodians.
12- 23.01.1993 - the founding of the scientific association "Ecological Society for the Study and Protection of Aquatic Wild Flora and Fauna" whose initiator and the president are from 1993 to the present (2021), based in the Faculty of Biology of the University of Bucharest and a branch of the University Al. I. Cuza Iași, which has been operating since 2001 - scientific activity coordinated by Acad.prof.dr.doc. Petru M. Bănărescu in the period 1993 - 2009.
- January 1996 - Implementation of fisheries and aquaculture legislation, joint order of the Ministry of Agriculture and Rural Development (MADR), and the Ministry of Environment and Sustainable Development, conservation and protection of sturgeons and organization of the regional conservation plan in the Danube basin with the participation of river basin countries of the Danube;
1998 Project "Animal Planet Club" for professional education
January 31 - February 4, 2006 - Completion of the mission report on Fisheries in Romania (Patrick Williot - France - Cemagref - MA - EPBx). Twinning project RO 2004 IB AG 05 - elaboration of the National Strategic Plan for Fisheries;
- coordination activities of Romania's accession policies to the European Union for the areas of law enforcement, new institutions - aquaculture and the EU aquaculture and fisheries program
- promoting the formation of professional fishermen's associations accredited to the EU, the Danube, the Black Sea and Lake Stâncă Costești and the Prut River
- coordination of scientific research in 80 scientific research units in the field of agriculture, montanology and sustainable development of the Carpathian mountain area of Romania
- reorganization of the Mountain Agency
- founding ANPA in April 2005.
- Establishment of the Scientific Research Service of the Ministry of Agriculture for applied research and in partnership with other institutions for the revitalization of the agricultural and aquaculture research sector stopped after 1990
- development of legislation and rules of good practice of organic farming, control of genetically modified organisms
- initiator of the conservation, rescue, and repopulation legislation with sturgeons through the newly formed ANPA
Initiator and founder of the Aquaterra Ecological Educational Complex (650 aquariums and 33 aquaculture basins with recirculating systems and biological filtration of aquaculture systems - RAS) for the professional training of students, ecological and ethological research, complex appreciated with Romania's accession to the EU through the country report between 2005-2006. It operated between 1993-2012 until its demolition and the construction of the new Research Institute of the University of Bucharest on the same space, with no one available for relocation.
November 1, 2007 - initiator of the Station for research, ecological reconstruction, reproduction and repopulation with the rarest species of fish in the Romanian Fauna (Plutonița, Frasin town, Suceava county) called by us "Noah's Little Ark".
01.01.2017 - present - initiator of the development of two new laboratories within the faculty of biology (laboratories for ecotoxicology research and modeling of aquatic ecology, biochemistry, pollutants, their impact on human and aquatic animal health - within the old building of the faculty and of the research laboratory of ichthyology, aquaculture, ethology, fish ecology and 12 new modern recirculating systems within the basement of the Research Institute of the University of Bucharest (ICUB).
- initiator and director of the Animal Planet club in room 7 of the Faculty of Biology, where it is the official headquarters of the Aquaterra Association for the alternative training of biologists, ecologists, biochemists in the complex context of harmful human influences in the Biosphere and the need to change education for nature (laboratory awarded at the official opening of Discovery and Animal Planet in Romania, in 1998).
12.12.2016 - present Preparation of the Aquaterra documentation and its accession to the Natura 2000 Coalition, the only federation of environmental and biodiversity organizations in Romania (uninterrupted activity of proposing new laws by members of the federation, activity within the Ministry of Environment and Climate Change, and 2 chambers of the Romanian parliament in the field of protection and conservation of wild species and habitats of Romania.
1990 - present - Initiator, producer and coordinator of the scientific study of the Valea Vâlsanului Reservation on 10,000 ha in 1996-1997, the introduction of the species <i>Romanichthys valsanicola</i> in the Commission of Natural Monuments and its introduction on the Red List of the Bern Convention (1996-1998) in order to then be able to take conservation and rescue measures from extinction through volunteer actions and free study as well as the lobby of its declaration in 2016, continuous activity with members of Aquaterra.

- the scientific study for aquatic habitats under the coordination of the Lake Văcărești Association (and its voluntary member since 2014) for the declaration of the protected area Văcărești Natural Park and the management plan for (2009-2019).
15.03.2014 - 25.07.2018 - taking into custody of our association of a 6 Natura 2000 sites and coordinating the administration activities, implementation of conservation and education projects 1. Lake Stâncă Costești- Prut, Botoșani county, 2. Upper Moldova Site (Izvoarele Moldovei - Câmpulung Moldovenesc), Suceava County 3. Moldova Păltinoasa - Ruși site, Suceava county, 4. Site on Suceava River between Suceava - Liteni localities, Suceava county, 5. Motru River (between the confluence of Apa mare - Motru - outflow, 45 km long, Gorj County, 6. Vânju Mare Forest Site, Gorj.
1993-2002 - co-initiator with Dr. Biologist. I. Vasiliu of scientific studies and other members Aquaterra of scientific research activities of marine ichthyofauna of the marine coastal area, other marine taxonomic groups - marine ecology, ethology of coastal marine fish, public education and conservation of marine reserve 2 Mai - Vama Veche, Constanța County, the Romanian coastal area of Romania and the construction of an education and information center, the initiation of coastal marine research, etc.)
07.06.1991 - 07.10.19910 - Carrying out polar scientific research on zoology, ornithology, coastal marine aquatic ecology, ichthyology within the 2nd Romanian polar expedition to Spitsbergen Island, Svalbard Archipelago, Norway where I was the biologist of the Romanian expedition (results partially published after expedition). The failed initiative to found a research base of Romania under the administration of the Ministry of Research & University of Bucharest 1990 - present (scientific studies of scientific substantiation were carried out in order to found it between 1991-1993).
1986 - 2004 - carrying out scientific studies and proposal for the establishment of the Comana National Park
2012 - present - the realization of scientific syntheses with the study of the fauna from the Mehedinți Plateau Geopark
<b>OTHER FUNCTIONS HELD</b>
- 01.01.2005 - 25.11.2006 Adviser to the Minister of Agriculture and Rural Development - Minister Gheorghe Flutur, -25.11.2006-30.04.2007- Adviser to the Minister of Agriculture and Rural Development Dan Ștefan Motreanu, - 01.05.2007 - 30.10.2007- Adviser to the Minister of Agriculture and Rural Development Decebal Traian Remeș - 2001 - 2010 - a member of the international association IADR - 01.04.2009 - 01.03.2015 Director at the Lăzăreni Aquaculture and Aquatic Ecology Resort - Member of the advisory board of the Văcărești National Park - November 2018 - participant in the EuroFish Congress - Member of the International Association for the Conservation of Chelonians

<b>Appendix</b>	<b>I. List of publications</b>
	<b>II. National and international research projects</b>
	<b>III. Environmental impact studies conducted</b>

## APPENDIX

### I. List of publications

#### A. Books , books , courses, chapters in collective volumes

1. Craciun Nicolai, 2008 Ornithology course . Ars Docendi Publishing , 290 pp. , ISBN : 978-973-558-363-7 ;
2. Craciun Nicolai, 2008 , Methods and techniques of juvenile fish aquaculture zooplankton nutrition . Docendi Ard Publishing , 369 pp. , ISBN : 978-973-558-304-0 ;
3. Maria Pătroescu Ilie Chincea , Lawrence Rozyłowicz , Carmen Sorescu , Irina Goia, George Groza , Eugen Frățilă Ioja Cristian Bogdan Badescu Alexandru Crisan, Nicolai Craciun 2007 Banat black pine forests (*Pinus nigra ssp banatica* ) of the NATURA 2000. Publisher BRUMAR . pp. 117-133 , ISBN : 978-973-602-292-0 ;
4. Lotus Mester Calin Tesio , Cristina Staicu , Nicolai Craciun. 1999. Practical vertebrate zoology . University of Bucharest , 143 pp. , ISBN 973 -X - 575-343 ;

#### B. Articles published in full (since 2004 - present )

##### Without ISI, journals indexed BDI :

1. Burlacu L., Radu C. F., Gavriloiu I. C., Sahlean T., Crăciun N., Bucur C., 2009. Variation of growth-related values within age categories and sexes in a pumpkinseed – *Lepomis gibbosus* (Linnaeus 1758), (Teleostei, Centrarchidae) - population. AACL Bioflux 2(1):63-70;
2. Burlacu L., Radu C. F., Crăciun N., Sahlean T., Gavriloiu I. C., Bucur C. 2009. Body mass-related modifications involved in starvation at pumpkinseed *Lepomis gibbosus* (Linnaeus, 1758) (Teleostei, Centrarchidae). AACL Bioflux 2(1):57-61;
3. Laurențiu Burlacu, Nicolai Crăciun, Ionel Gavriloiu Tiberiu, Claudiu Sahlean, Cătălina Floriana Radu. 2008. A theoretical model useful in assesment of invasion potential of the species *Pseudorasbora parva* (Temminck & Schlegel, 1846) as a correlation of the corporal condition factors and the values of physical-chemical parameters of water. SCSB, Volume XV - Animal Biology. pp. 48 – 50;
4. Laurențiu Burlacu, Nicolai Crăciun, Cătălina Floriana Radu, Tiberiu Sahlean, Claudiu Gavriloiu, Dorel Ureche. 2008. A study on the elaboration of a coloration protocol on three small-size freshwater fish species: *Carassius gibelio* (Bloch, 1782) *Pseudorasbora parva* (Temminck & Schlegel, 1846) and *Alburnus alburnus* (Linnaeus, 1758) (Pisces, Cyprinidae), useful in age-determination by means of growth ring counting. SCSB, Volume XV - Animal Biology. pp. 36 – 39;
5. Daniel Kazimir Kurzyluk, Nicolai Craciun. 2007. Contributions to the knowledge regarding the distribution of Clerids (Insecta: Coleoptera) in Romania. SCSB, Volume XIII – Animal Biology (in press);
6. Nicolai Crăciun, Sorin Petrescu, Smaranda Mariana Pop, Laurențiu Burlacu, Cătălina Floriana Radu. 2007. Researches regarding the production of automated fish feeding systems used in super intensive culture facilities. SCSB, Volume XIII – Animal Biology (in press);
7. Adrian Ionașcu, Nicolai Crăciun. 2005. Preliminary results of using external attached radiotransmitters to track the movements of *Romanichthys valsanicola* Dumitrescu, Banarescu, Stoica, 1957. STUDII ȘI CERCETĂRI ȘTIINȚIFICE BACĂU – BIOLOGIE, serie 11-2005. pp. 31 – 38;
8. Laurențiu Burlacu, Eleonora Popescu, Nicolai Crăciun, Florin Aioanei, Marian Tudor. 2004. Contributions to the study of the reptile and amphibian species in the Comana Natural Reservation – Giurgiu county. STUDII ȘI CERCETĂRI ȘTIINȚIFICE BACĂU, SERIE 9 – 2004. pp. 188 – 191;
9. Nicolai Crăciun, Laurențiu Burlacu, Dorel Ureche, Florin Aioanei. 2004. Conservation strategies for the endangered Romanian fish species. STUDII ȘI CERCETĂRI ȘTIINȚIFICE BACĂU, SERIE 9 – 2004. pp. 81 – 85;
10. Nicolai Crăciun, Laurențiu Burlacu, Gabriel Chiriac, Dorel Ureche. 2004. Evaluation of the production potential of the *Artemia salina* populations in the Techirghiol and salted lakes. STUDII ȘI CERCETĂRI ȘTIINȚIFICE BACĂU, SERIE 9 – 2004, pp. 17 – 21;
11. Ionașcu, A., Crăciun, N. 2009. Use of telemetry in the conservation of the endangered fish species: *Romanichthys valsanicola* Dumitrescu, Bănărescu & Stoica, 1957 (PISCES: ACTINOPTERYGII: PERCIFORMES: PERCIDAE). Travaux Naturelle "Grigore Antipa", LII: 497-513.
12. Crăciun N., Turmac Constantin, 2013. „New researches regarding ichthyofauna and anthropogenic impact on fish communities from lake Snagov”, “Scientific Study and Research. Biology”, Animal Biology series, Bacau.
13. Crăciun N., Turmac Constantin, 2013. “Assessment of the ornithofauna biodiversity of terrestrial, forest and aquatic habitats from “Snagov forest” and “Snagov lake” reservations”, “Scientific Study and Research. Biology”, Animal Biology series, Bacau.
14. Crăciun N., 2013. „Researches on herpetofauna biodiversity from the upper basin of Dambovită valley”, University „Alexandru Ioan-Cuza” Annals, Iasi, Animal Biology Series, Ed. of „Alexandru Ioan-Cuza” University, Iasi.
15. Crăciun N., 2013. „Study of herpetofauna populations from the "Mehedinti Plateau" Geopark”, University „Alexandru Ioan-Cuza” Annals, Iasi, Animal Biology Series, Ed. of „Alexandru Ioan-Cuza” University, Iasi.
16. SONEA C. G., BOGDAN Alexandru T., CRĂCIUN Nicolai, BOGDAN Dorina, TOBA G. F., STRATEANU Amalia, ENACHE M, 2013. „ECOBIOECONOMIC INTEGRATION OF FISH CULTURE AND VEGETABLE FARMING IN AQUAPONIC INNOVATIVE TECHNOLOGY”, Bulletin of University of Agriculture Sciences and Veterinary Medicine, Cluj-Napoca.

17. TOBA George Florea, GROZA Ion Stefan, BOGDAN Alexandru T., VINTILA Ion, SZABO Levente, **CRĂCIUN Nicolai**, ROMAN Mircea, DANACU Valerica, PARASCHIVESCU Marcel Th., SONEA Cristinel, OCHEA Marian, 2013. „USE OF MOBILE LABORATORIES FOR APPLICATION OF REPRODUCTIVE BIOTECHNOLOGIES IN FARM ANIMALS”, Bulletin of University of Agriculture Sciences and Veterinary Medicine, Cluj-Napoca.
18. Bogdan A.T., Miresan Vioara, Bogdan Dorina, Cadar Mirela, Mateuti M., Marusca T., Tapaloaga Dana, Danacu Valerica, Strateanu Amalia, Comsa Dana, Chelmu S., **Crăciun N.**, Sonea C., 2013. „Physiological and histological basis of etnozootechny with innovative eco-economics and eco-bio-law solutions for integrated consumer protection”, Bulletin of University of Agriculture Sciences and Veterinary Medicine, Cluj-Napoca.
19. Comşa D., Bogdan A.T., Miresan Vioara, Bogdan Dorina, Cadar Mirela, Strateanu Amalia, Gaf-Deac I., Toba G.F., Danacu Valerica, Marinescu Ioana, **Crăciun N.**, Sonea C., 2013. „New concept of social eco-bio-economy based on integrating biosciences with environmental protection for food safety and security in farm animals”, Bulletin of University of Agriculture Sciences and Veterinary Medicine, Cluj-Napoca.
20. Bogdan A.T., Miresan Vioara, Bogdan Dorina, Cadar Mirela, Burlacu R., Mateuti M., Tapaloaga Dana, Gheorghe Maria, Danacu Valerica, Strateanu Amalia, Comsa Dana, Bazga B., Chelmu S., **Crăciun N.**, Sonea C., 2013, „Using the bioscience in zootechnical production through innovative Eco-Bio-Pedo-Strategies against globalized hunger, based on Eco-Bio-Diplomacy”, Bulletin of University of Agriculture Sciences and Veterinary Medicine, Cluj-Napoca.
21. Comşa D., Bogdan A.T., Miresan Vioara, Bogdan Dorina, Cadar Mirela, Strateanu Amalia, Gaf-Deac I., Diaconescu D., Toba G.F., Danacu Valerica, Marinescu Ioana, **Crăciun N.**, Sonea C., 2013, „New trends in animal science and biotechnology through innovative synergies between green economy and blue economy based on eco-bio-diplomacy”, Bulletin of University of Agriculture Sciences and Veterinary Medicine, Cluj-Napoca.
22. Sonea C. G., Miresan Vioara, Bogdan A. T., **Crăciun N.**, Bogdan Dorina, Cadar Mirela, Toba G. F., Strateanu Amalia, Comsa Dana, Chelmu Sorin, Bazga B., Enache M., 2013. „New opportunity for increasing the zootechnical blue economy using the bioscience and biotechnologies in food production from farm animals”, Bulletin of University of Agriculture Sciences and Veterinary Medicine, Cluj-Napoca.
23. Crăciun N., Serea R., Bogdan A.T., TOBA Ghe. F., Gruia R., Paraschivescu M. Th., Stefanescu A., Pasalau C., 2013, „From the Antipa's bioeconomy science (1931) to aquaculture bioeconomy, based on innovative ecoeconomy of aquaponic recirculating system”, SciVerse ScienceDirect, Elsevier
24. PEPENEL Ilie, **CRACIUN Nicolai**, JUJEA Valentin, FLOREA Andreea, POP Cristian Emilian, STOIAN Gheorghe. Biochemical parameters of salt lakes sapropelic sludge from Buzau County protected area, with different degrees of microbiological attrition DDNI 2020 <http://doi.org/10.7427/DDI.25.11>
25. **CRĂCIUN Nicolai**, NEGREA Bogdan, POP Cristian Emilian, JUJEA Valentin, STOIAN Gheorghe. Experimental research compared aquaculture of certain species of the Lemna genus with a demonstration of environmental requirements and of the adaptations to environmental conditions specific to aquatic eutrophy-polytroph ecosystems DDNI 2020 DOI: 10.7427/DDI.25.03
26. **CRĂCIUN Nicolai**, NEGREA Bogdan, POP Cristian Emilian, JUJEA Valentin, Cristina Mitre138. Advanced biochemical and microbial diversity monitoring system based on micro/nano sensors and micro structure aerators , IoT compatible, 2020 Conference: BIOPROSPECTING IN ANTARCTICA: A NEW FRONTIER OR A NOVEL THREAT?
27. Ivan Madalina, Curutiu Carmen, **Craciun Nicolai**, Jujea Valentin, Pop Cristian Microbiological and Physico-Chemical Parameters of the Danube River (Romanian–Bulgarian Sector) with Ichthyofaunal Diversity 2020, Bioflux doi: 10.20944/preprints202101.0051.v1

## In others Romanian scientific journals

1. Marinescu, Al. G., Crăciun, N., Petronela, A. 1994. Der Einfluss Nahrungszustandes und der spezifischen Aktivitat auf den Sauerstoffverbrauch bei zwei fischarten (*Carassius auratus gibelio* Bloch und *Barbus barbus* (Linne)). Proceedings of the annual scientific session (2 - nd -3 rd March. , Buc. 1994), Romanian Academy. 68 – 72.
2. NICOLAI CRĂCIUN. 1996. Reproductive biology of pond chub (*Leuciscus borythenicus ssp. celesticus*) from Comana. Annals of the Danube Delta Institute for Research VOL.V: 139-152.
3. NICOLAI CRĂCIUN. 1996. Interspecific competition in cyprinids in limnic ecosystems - ethological observations. Annals of the Danube Delta Institute for Research VOL.V: 119-138.
4. Nicolai Crăciun, Adrian Ionaşcu, Dorin Hanganu. 1997. Ethology research on coastal blenniids. Annals of the "Danube Delta" Institute of Research and Development - Tulcea: 195-205.
5. AL. G. MARINESCU, H. KUNNEMANN, O. DRĂGHICI, LICA BARBU, M. DECIU, N. CRĂCIUN. 1997. Influence of adaptation temperature on heat resistance of two fish species. ROMANIAN ACADEMY, PROCEEDINGS OF THE INSTITUTE OF BIOLOGY, ANNUAL SCIENTIFIC SESSION BUCHAREST: 199-204.
6. NICOLAI CRĂCIUN. 1997. Ethological researches on *Scardinius racovitzai* from the thermal lake 1 Mai – Oradea. ANALS OF THE UNIVERSITY OF BUCHAREST- BIOLOGY YEAR XLVI: 31-40.
7. AL.G. MARINESCU, H. KUNNEMANN, O. DRĂGHICI, LICA BARBU, S. ANDREUŢĂ, N. CRĂCIUN. 1997. Seasonal oxygen consumption in the goldfish (*Carassius auratus gibelio* Bloch). ACADEMIE ROUMAINE, REVUE ROUMAINE DE BIOLOGIE, SERIE DE BIOLOGIE ANIMALE, JANVIER- JUIN 1997: 107-116.



8. Crăciun, N., Ionașcu, A., Hanganu, D., L. 1998. Comparative ethology research OF Sygnathidae family species in the Black Sea. Annals of the Institute of Research and Design "Delta".
9. ANDREEA CRISTIN STAIU, LOTUS ELENA MEȘTER, N. CRĂCIUN. Research on ovarian development study on *Ctenopharyngodon idella*, *Hypophthalmichthys malitrix* and *Aristichthys nobilis* at the beginning of winter. Annals BUCHAREST - BIOLOGY Year XLVII, 1998: 27-40.
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68	Abd Manan, T. S. B., Beddu, S., Mohd Kamal, N. L., Mohamad, D., Itam, Z., Khan, T., ... & Jusoh, H. (2021). Ecological Risk Indicators for Leached Heavy Metals from Coal Ash Generated at a Malaysian Power Plant. <i>Sustainability</i> 2021, 13, 10222.	<a href="#">Experimental research compared aquaculture of certain species of the Lemna genus with demonstration of environmental requirements and of the adaptations to environmental ...</a> 2020, Ann. Danube Delta Inst 25, 2020 Authors N Crăciun, B Negrea, CE Pop, V Jujea, G Stoian
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70	Scăteanu, G. V., Madjar, R. M., Silvestro, A., Dulea, C., & Stavrescu-Bedivan, M. M. (2018). Assessment of water quality parameters in relation with depletion of aquatic biota in Snagov Lake, Romania. <i>International Multidisciplinary Scientific GeoConference: SGEM</i> , 18(1.5), 211-218.	<a href="#">NEW RESEARCHES REGARDING ICHTHYOFAUNA AND ANTHROPOGENIC IMPACT ON FISH COMMUNITIES FROM LAKE SNAGOV</a> Studii și Cercetări, Biologie 24, 78-82 Authors: N Crăciun, C Turmac

### III . Research Projects

#### A. National Projects

##### Project Manager :

1. Public campaign project 1999-2003 for the conservation of the coastal area Vama Veche - Making the Discovery documentary
2. Contract CEEX - BIOTECH 120/2006 , subcontract 310/P2 ( STURDUN ) ( 2006-2008 ) - "Conservation and sustainable use of sturgeons in the Lower Danube " ;
3. Contract CEEX AGRAL 5 ( NUTRIACVA ) ( 2005-2008 ) - "Research for the production of conventional and unconventional competitive domestic feed used in aquaculture "
4. Sector Contract 357/2006 (2006 - 2008) , "Development of reproductive technologies for rare fish species , endangered or threatened with extinction " ;
5. Contract 3800AK/20.09.2007 " Environmental risk assessment in Romania cultivation of genetically modified maize lines MON 810 and T25 " , July-December 2007 ;
6. Contract 201/2006 , CNAFP (2006 - 2007) , "Research on the mechanisms of biological filtration of aquaculture water for intensive production and superintensive " performer;
7. Contract 52-170 / 2008, PN II (2008-2012), “Development and implementation of intensive growth technologies of the species *Oreochromis niloticus* (Tilapia) – with a view to its introduction in aquaculture in Romania”, responsible contract, 2008-2012;
8. Contract 52-171 / 2008, PN II (2008-2012), “Optimization of the technological processes in aquaculture by introducing systems and methods of automated feeding and monitoring of water quality, in order to comply with the EU requirements regarding the quality of the environment and the products of aquaculture ”, Responsible contract, 2008-2012;
9. SMIS contract CSNR 17610 (2011-2014), “Protected Natural Area – Snagov Lake” Appropriate management through review Management plan based on scientific studies, Information and Awareness, SOP Environment, Axis 4
10. Advanced biotechnology for intensive – freshwater aquaculture wastewater reuse – ABAWARE (2017-2019)
11. Fast Danube Nr. HRO / 16.1\_335 / L / 30.11.2020 Project: Technical assistance for the revision and completion of the feasibility study on the improvement of navigation conditions on the Romanian-Bulgarian common sector of the Danube and complementary studies.

12. ERA-NET COFUND WATERWORKS 2015 - Joint Programming Initiatives, "ADVANCED BIOTECHNOLOGY FOR INTENSIVE – FRESHWATER AQUACULTURE WASTEWATER REUSE" ABAWARE – 2016 Joint Call
13. Contract no.604/14.10.2019 of services within the project entitled- „Biodiversity conservation and nature protection by implementing the management plan of the protected natural area ROSCI0354 Platform Cotmeana, SMIS Code 119252, with the theme of Monitoring the quality and size of habitats of *Cwermabyx cerdo*, *Lucanus cervus*, *Morimus funereus* and *Bombina variegata* at the site, the maintenance of the habitat area 3260,3270,40C0,6430,6510,9130, 91E0, \* 91 MO, 91YO through measures to monitor the land use environment, the control of aquatic habitat pollution and the elimination of unregulated waste storage areas.

### III . ENVIRONMENTAL IMPACT ASSESSMENT ( impact on biodiversity )

1. Craciun Nicolai- S E AQUATERRA , Subcontract with ISPH ( Institute for Study and Design collective hydro - environmental impact studies ) , 1996 environmental impact study of spatial environmental product hidroenergetică Schitu - Golești , Arges County 1996 -1997 .
2. Nicolai Craciun – S E AQUATERRA 1996 ISPH subcontract research ( Survey and Design Institute Group of Hydro - Environmental Impact Studies ) , 1996 environmental impact study of spatial environmental product - river hydropower Rausor Fair , Lerești , Arges County .
3. Craciun Nicolai- S E AQUATERRA , 2005 Subcontract with SCGESA PROD , Comana , Impact on the environmental impacts of tourism planning product " European village Comana " .
4. Nicolai Craciun – S E AQUATERRA 2006 , Impact study in collaboration with ISPE , biodiversity impact assessment in wind parks Nucarilor Valley , Tulcea county .
5. Nicolai Craciun - S. E. Aquaterra , 2006 Impact study in collaboration with ISPE , biodiversity impact assessment in wind parks Nucarilor Valley , Tulcea county .
6. Craciun Nicolai- S E AQUATERRA , 2007 Subcontract research and achieving biodiversity impact assessment Croitoru Family Association , commune Călugăreni , village Crucea de Piatră , Jud. Giurgiu , carrying out the impact for mixed farming family and home and recreation recovery made by the family association and Croitoru Valentina Eugen Croitoru , May-September 2007 .
7. Craciun Nicolai- SEAQUATERRA , 2007 Subcontract with family association Ohreac Sandu , village Crucea de Piatră , impact studies conducted Making herb Farm Family Association Ohreac Sandu .
8. Nicolai Craciun - S. E. Aquaterra , 2007 Impact study in collaboration with ISPE study the potential impact of wind farms in the area Dorobanțu - Lights - Topology (Tulcea , Romania ) on biodiversity.
9. Nicolai Craciun - S. E. Aquaterra , 2007 Impact study in collaboration with ISPE study the potential impact of wind farms and villages Văcăreni Isaccea (Tulcea , Romania ) on biodiversity.
10. Nicolai Craciun - S. E. Aquaterra , 2008 Impact study in collaboration with ISPE study the potential impact of wind farm Medgidia - Ciocarlia ( Constanța county, Romania ) on Biodiversity , 2008.
11. Nicolai Craciun - S. E. Aquaterra , 2008 Impact study in collaboration with ISPE study the potential impact of the Cave Park Eolian ( Constanța county, Romania ) on biodiversity.
12. Nicolai Craciun - S. E. Aquaterra , 2009 Impact study in collaboration with ISPE , Study on impact of power plant construction 1 x 800mW Free Zone Galati on biodiversity.
13. Nicolai Craciun - S. E. Aquaterra , 2009 REPORT ON ASSESSMENT OF ENVIRONMENTAL IMPACT project establishment agro complex " Gurbani Valley " or "House Florin Părvu " .
14. Nicolai Craciun - S. E. Aquaterra , 2009 , Study on the potential impact of investment " Complex Project water supply , sewerage, road construction and cultural social structures in commune Călugăreni , Giurgiu " on areas of Community SCI -SPA Comana .
15. Nicolai Craciun - S. E. Aquaterra , 2009 , Study on the potential impact of intensive fish farming on species and habitats from the perimeter 0102 ROSPA Suhaia 2009 .
16. Nicolai Craciun - S. E. Aquaterra , 2009 Environmental Report on " natural area management plan Balta Suhaia Special Protection " .
17. Nicolai Craciun - S. E. Aquaterra , 2010 Subcontract SC KVBEconomic windfarm Socol - Study on the potential impact on wildlife .
18. Nicolai Craciun - S. E. Aquaterra , 2010 Subcontract SC KVBEconomic , monitoring and development monitoring report for the airport " Adunații - Copăceni " .
19. Nicolai Craciun - S. E. Aquaterra , 2010 Subcontract SC KVBEconomic , Feasibility study on implementation of rural wind farm boasts - Smulți - Crăiești - Orlești .
20. Nicolai Craciun - S. E. Aquaterra , 2010 Subcontract SC KVBEconomic Monitoring report Medgidia biodiversity in the South - Cave to build a wind farm .
21. Nicolai Craciun - S. E. Aquaterra, Adequate evaluation study for the investment work "Bridge over the Prut at Ungheni", ichthyological study 2015



22. Nicolai Craciun - S. E. Aquaterra, Adequate evaluation study and impact study for the investment project: Execution of the site organization with the temporary location of the concrete station and the asphalt station - technical documentation for the organization of the execution related to the investment: "Rehabilitation DN 18, Moisei - Iacobeni, for the remediation of the existing works and the completion of the remaining works to be executed: lot 3 Șesuri - Cârlibaba, Km 180 + 850 - Km 199 + 400 "2015 - 2016
23. Nicolai Craciun - S. E. Aquaterra, Adequate evaluation study for the investment paper "Establishment of water and wastewater infrastructure, in Verești commune, Suceava county" 2016
24. Nicolai Craciun - S. E. Aquaterra association with SC ALMA Group Research SRL, Adequate evaluation study for the investment paper "Establishment of the water supply system and sewerage system in Udești commune, Suceava county" 2017
25. SC Ionașcu & Ionașcu, Contract for the provision of professional services with SE Aquaterra, Development of management plans for nine sport fishermen's associations, according to Order 60/2017 of the Minister of Agriculture and Rural Development 2017
26. Nicolai Craciun - S. E. Aquaterra association with SC ALMA Group Research SRL, Adequate evaluation study for the investment work "PUZ in order to remove from the agricultural circuit and the introduction in the built-up area of Hârșova of 30,591sqm in order to arrange a tourist agreement" May 2016 - July 2017
27. Nicolai Craciun - S. E. Aquaterra Contract for the provision of professional services with SC Ionașcu & Ionașcu, Realization of management plans for 3 sport fishermen associations, according to Order 60/2017 of the Minister of Agriculture and Rural Development 2018
28. Nicolai Craciun - S. E. Aquaterra Contract for the provision of professional services with SC Ionașcu & Ionașcu, for the Adequate Evaluation Study for the investment project: elaboration of the Adequate Evaluation Study (EA) aiming at the Exploitation activities of the mineral aggregates from the Condrea aval perimeter, Siret River watercourse, in view of clearing the riverbed June 2018 - December 2019
29. Nicolai Craciun - S. E. Aquaterra Contract for the provision of professional services with SC Ionașcu & Ionașcu, for the Presentation Memorandum for the project: "Updating the general urban plans and local urban regulations for the localities of Crevedia Mare commune, Giurgiu county" September 2018 - February 2020
30. Nicolai Craciun - S. E. Aquaterra Contract for the provision of professional services with SC Ionașcu & Ionașcu, Realization of management plans for an association of sport fishermen, according to Order 60/2017 of the Minister of Agriculture and Rural Development December 2018 - January 2019
31. Nicolai Craciun - S. E. Aquaterra Contract for the provision of professional services with SC Ionașcu & Ionașcu, for Adequate Evaluation Study for the project: "Modernization DJ 175A, km 5 + 100 - 12 + 760, Câmpulung Moldovenesc - Rarău, Suceava County" December 2018 - June 2019
32. Nicolai Craciun - S. E. Aquaterra Contract for the provision of professional services with SC Ionașcu & Ionașcu, for field investigations for Adequate evaluation study for the project "Bucharest - Giurgiu Railway Line" May - June 2019
33. Nicolai Craciun - S. E. Aquaterra Contract for the provision of professional services with SC Ionașcu & Ionașcu, for field investigations for Adequate evaluation study for the project: "Bacău - Pașcani High Speed Road" June - October 2019
34. Nicolai Craciun - S. E. Aquaterra Contract for the provision of professional services with SC Ionașcu & Ionașcu, for field investigations for "Studies for the realization of flood protection projects on the Tur river and some tributaries, respectively the Mureș rivers and tributaries" September - November 2019
35. Nicolai Craciun - S. E. Aquaterra Contract for the provision of professional services with SC Ionașcu & Ionașcu, for the investment project: elaboration of the Environmental Impact Report (RIM) regarding the activities of "Exploitation of mineral aggregates from the Condrea aval perimeter, Siret River watercourse, in order to clear the riverbed "November 2019 - March 2020
36. Nicolai Craciun - S. E. Aquaterra Contract for the provision of professional services with SC Ionașcu & Ionașcu, regarding "Ichthyological study of non-migratory fish" from the project "Technical assistance for reviewing and completing the feasibility study on improving navigation conditions on the common Romanian-Bulgarian Danube sector and complementary studies", coordinated by Halcrow Romania SRL in order to obtain the environmental permit January 2020 - July 2020. Beneficiary S.C.Jacobs and AFDJ Galați Giurgiu branch
37. Nicolai Craciun - S.E. Aquaterra, 2020 «Technical assistance for review and completion of feasibility study on improving navigation conditions on the common Romanian-Bulgarian Danube sector and complementary studies» Beneficiary S.C.Jacobs and AFDJ Galați Giurgiu branch
38. Craciun Nicolai - S.E Aquaterra, Report on the control of the extraction of natural mineral aggregates, sand and gravel developed within the project "Biodiversity conservation and nature protection by implementing the management plan of the protected natural area ROSCI 0354 Cotmeana Platform", 2021. Project owner: S.C. ROMDECA S.R.L

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