europass Curriculum vitae

PERSONAL INFORMATION

David Stanković

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Sex Male | Date of birth 28/1/1982

WORK EXPERIENCE

1/7/2016–Present Postdoctoral research fellow (Assegnista di ricerca)

Department of Life Sciences, University of Trieste, Trieste

Post-doctoral advisor: Prof. Dr. Alberto Pallavicini

Funding: Vivaldi project (Preventing and Mitigating farmed Bivalve Diseases) is funded by the European Union, through its Horizon 202

Description: This is my second post-doctoral position at the Department of Life Sciences, University of Trieste with Prof. Dr. Alberto Pallavicini. Here, my research work is focused on bioinformatic analysis of NGS data and mostly concerns bivalve microbiom metagenetic analysis to better understand the bivalve diseases. Moreover, I am also using metagenetics and environmental DNA approaches to study other components of marine biota.

5/2015–5/2016 Postdoctoral research fellow (Assegnista di ricerca)

Department of Life Sciences, University of Trieste, Trieste

Post-doctoral advisor: Prof. Dr. Alberto Pallavicini

Funding: DIANET BIO/18 project (Meassuring of biodiversity by genetic tools for the assessment of environmental quality and conservation) is funded by the European Social Fund

Description: This one-year postdoctoral research position was my first post-doctoral position after my PhD and my first position at Department of Life Sciences, University of Trieste and with Prof. Dr. Alberto Pallavicini. My research work mostly consisted of metagenetic analysis of various organisms, primarely zooplankton and was focused on bioinformatic analysis of NGS data. In addition, I was also involved in several other projects that fall into two categories. One was mostly focused on giving bioinformatic support to microbiome analysis from NGS sequencing data, while the other is oriented on questions regarding molecular evolution and ecology of marine and freshwater animals.

5/2014–4/2015 Researcher

Society for Cave Biology, Kranj (Slovenia)

Funding: Critical Ecosystem Partnership Fund

Description: In collaboration with other researches joined in the Society for cave biology we developed a novel method for detection and monitoring of the cave salamander *(Proteus anguinus*) through detection of environmental DNA. On this project I was one of the leading researcher and was in charge for the development of the method. Our method was based on the qPCR detection of eDNA. With this method we can successfully detect environmental DNA of this cave amphibian in nature and even distinguish between the black and white subspecies.

11/2010–4/2014 Young Researcher

University of Ljubljana, Biotechnical faculty, Domžale (Slovenia)

PhD supervisor: Dr. Aleš Snoj

Funding: Slovenian research agency

Description: During my PhD studies on conservation genetics of rainbow trout I was employed as a

young researcher and a teaching assistant at Department of Animal Science, Biotechnical faculty, University of Ljubljana (Slovenia), where I joined Dr. Aleš Snoj's Balkan Trout Restoration Group. My main activities were related with my PhD research work (Genetic background of self-sustaining rainbow trout (*Oncorhynchus mykiss* Walbaum, 1792) populations) and included laboratory, field work and statistical analysis. To better understand the mechanisms involved in naturalization of non-native rainbow trout I was using population genetics to compare the diversity and population dynamics of European non-native populations to the native anadromous and resident populations from Pacific coast of North America.

2/2007–9/2010

Field associate and technical assistant

Center for cartography of fauna and flora, Ljubljana (Slovenia)

Description: Prior to starting my PhD I was working as a field biologist an a specialist for amphibians, terrapins, bats and fish on various projects for the Centre for Cartography of fauna and flora.

EDUCATION AND TRAINING

1/11/2010–22/12/2015

PhD Biosciences - Biology

EQF level 8

University of Ljubljana, Biotechnical faculty, Interdisciplinary Doctoral Programme in Biosciences, Ljubljana (Slovenia)

Thesis title: Genetics of self-sustaining rainbow trout populations (*Oncorhynchus mykiss*) in Slovenia

Supervisor: Dr. Aleš Snoj

Funding: Slovenian research agency

2000–2010

BSc & MSc Biology

EQF level 7

Biotechnical faculty, University of Ljubljana, Ljubljana (Slovenia)

MSc thesis title: Molecular phylogenetics and speciation of leeches in the lake Ohrid (Macedonia)

Supervisor: Prof. Dr. Peter Trontelj

PERSONAL SKILLS

Mother tongue(s): Slovenian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Serbian	C2	C2	C2	C2	C2
German	A1	A2	A1	A1	A1
Italian	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Job-related skills

Laboratory techniques:

- DNA/RNA isolation, oligonucleotide design, PCR, RFLP,

- Sanger sequencing with Genetic Analyzer (ABI) & - microsatellite genotyping with Genetic Analyzer (ABI),

- library preparation for NGS,

- qPCR (gene expression, SNP genotyping eDNA detection),

- detection of environmental DNA (filtration, isolation, qPCR detection) & of community DNA from bulk samples (isolation, PCR, library preparation, metabarcoding with NGS)

Field work experience:

- sampling of environmental DNA (water, faeces),

- microbiological sampling for pathogens on wild animals,

- monitoring of amphibian, reptile, bat and fish distribution,

- electro-fishing experience.

Bioinformatic and computer skills:

- software pipelines for metabarcoding (QIIME, MEGAN, mothur)

- software for phylogenetic and population genetic analysis (Arlequin,

BAPS, BEAST1&2, DIYABC, GenAlEX, Genepop, IMa2, Migrate-N, MAFFT, MrBayes, PartitionFinder, RAxML, Structure, Mesqiute...),

- software for oligonucleotide design, DNA sequence assembly

- software for cartography and GIS analyses (ArcView, QGIS),

- R software for statistical analysis (ape, vegan, phytools, adegent, BAMMtools, laser ...) & some programming experience with Python and Matlab/Octave,

- proficient in standard office computer tools (MS Office, Adobe, graphic and photo editing software, internet tools...).

ADDITIONAL INFORMATION

Relevant publication list

SCIENTIFIC PUBLICATIONS:

Vences M., Lyra M., Perl B. R. G., Bletz M. C., **Stanković D.**, Lopes C. M., Jarek M., Bhuju S., Geffers R., Haddad C. F. B., Steinfartz S. (2016). Freshwater vertebrate metabarcoding on illumina platforms using double-indexed primers of the mitochondrial 16S rRNA gene. Conservation Genetics Resources 8: 323-7. doi:10.1007/s12686-016-0550-y.

Kirbiš N., Bedjanič M, Kus Veenvliet J., Veenvliet P., **Stanković D.**, Lipovšek, Poboljšaj K. (2016) First records of the Ameican bullfrog *Lithobates catesbeianus* (Shaw, 1801) in Slovenia. Natura Sloveniae 18: 23-7.

Stanković D., Molly R. Stephens, Snoj A. (2016) Origin and introduction history of self-sustaining rainbow trout populations in Europe as inferred from mitochondrial DNA and a Y-linked marker. Hydrobiologia 770: 129-44. doi:10.1007/s10750-015-2577-6.

Razpet A., Šunje E., Kalamujić B., **Stanković D.**, Tulić U., Pojskić N., Krizmanić I., Marić S. (2016) Genetic differentiation and population dynamics of Alpine salamanders (*Salamandra atra*, Laurenti 1768) in Southeastern Alps and Dinarides. The Herpetological Journal 26: 109-19.

Catarino D., Knutsen H., Veríssimo A., Olsen E. M., Jorde P. E., Menezes G., Sannæs H., **Stanković D.**, Company J. B., Neat F., Danovaro R., Dell'Anno A., Rochowski B., Stefanni S. (2015) The Pillars of Hercules as a bathymetric barrier to gene-flow promoting isolation in a global deep-sea shark (*Centroscymnus coelolepis*). Moleular Ecology 24: 6061-79.

Stanković D., Crivelli A. J., Snoj A. (2015) Rainbow trout in Europe: introduction, naturalization and impacts. Reviews in Fisheries Science & Aquaculture, 23: 39-71.

Stanković D., Lužnik M., Poboljšaj K. (2014) Conservation and declines of amphibians in Slovenia. In: Heatwole A. (Ed.) Status of conservation and decline of amphibians: Eastern Hemisphere. Part 4, Southern Europe and Turkey, (Amphibian biology, vol. 11). Exeter: Pelagic Publishing, 32-44 pp.

Aljančič G., Gorički Š., Năpăruş M., **Stanković D.**, Kuntner M. (2014) Endangered Proteus: Combining DNA and GIS analyses for its conservation. In: Sackl P., Durst R., Kotrošan D., Stumberger B. (Eds.) Dinaric Karst Poljes - Floods for life. EuroNatur, Radolfzell; p. 25-37.

Stanković D., Cipot M. (2014) Distribution and population size estimation of the moor frog *Rana arvalis* Nilsson, 1842 in Ljubljansko barje Nature Park, central Slovenia. Natura Sloveniae 16: 73-88.

Stanković D., Poboljšaj K. (2013) New data on the distribution of the Italian agile frog *Rana latastei* Boulenger, 1879 in Slovenian Istra. Natura Sloveniae 15: 51-5.

Stanković D., Delić T. (2012) Morphological evidence for the presence of the Danube Crested Newt, *Triturus dobrogicus* (Kiritzescu, 1903), in Slovenia. Natura Sloveniae 14: 23-9.

TECHNICAL REPORTS

Aljančič G., Năpăruş-Allančič., **Stanković D.**, Pavićević M., Gorički Š., Kuntner M., Merzlyakov L. (2014) A survey of the distribution of Proteus anguinus by environmental DNA sampling. CEPF Final project completion report. Kranj: Društvo za jamsko biologijo, 30 pp.