

# Dr Srđan Stojnić

Senior Research Associate

**Affiliation:** University of Novi Sad,  
Institute of Lowland Forestry and Environment (ILFE)  
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**Date of birth:** 27/04/1984

**Place of birth:** Sr. Mitrovica, Serbia

**Nationality:** Serbian

## Education

**2003 – 2008** Bachelor of Science: University of Belgrade, Faculty of Forestry, Belgrade, Serbia

**2008 – 2013** Doctoral Studies: University of Belgrade, Faculty of Forestry, Belgrade, Serbia

## Work experience

University of Novi Sad, Institute of Lowland Forestry and Environment (ILFE)

- 2008 – 2010 Junior Researcher
- 2010 – 2014 Research Assistant
- 2014 – 2019 Research Associate
- 2019 – to date Senior Research Associate

University of Novi Sad, Faculty of Agriculture

- 2014 – to date Lecturer at the doctoral studies (course: Agronomy, module: Forestry)

## Research interests

- Genetics and breeding of forest tree species
- Conservation of forest genetic resources
- Adaptation to climate change
- Urban forestry
- Tree physiology

## Language skills

- Serbian
- English

## Training courses and workshops

- 2009** FP7-REGPOT-2007-3: "Strengthening of Research Capacity for Poplar and Willow Multipurpose Plantation Growing in Serbia" (STREPOW). Training on poplar and willow biomass production, Casale Monferrato, Italy.
- 2010** FP7-REGPOT-2007-3: "Strengthening of Research Capacity for Poplar and Willow Multipurpose Plantation Growing in Serbia" (STREPOW). Training on phytoremediation, Bologna, Italy.
- 2011** COST Action ES0804 and COST Action FP0903. Training School: "Summer School on Flux Measurement Techniques: Methods, Sensors, Databases and Modeling", Tuczno Castel, Poland.
- 2011** FP7-REGPOT-2007-3: "Strengthening of Research Capacity for Poplar and Willow Multipurpose Plantation Growing in Serbia" (STREPOW). "STREPOW International Workshop", Novi Sad, Serbia.
- 2016** COST Action FP1403: NNEXT. Training School: "Non-native tree species in Europe in the viewpoint of climate change: challenges, risks, opportunities – trade-offs", Zagreb, Croatia.
- 2017** Training on wood anatomy, physical and mechanical properties. University of Zagreb, Faculty of Forestry, Department for Wood Science, Zagreb, Croatia.

## Grants and research stays abroad

- 2012** Grant within COST Action FP0903: Climate change and forest mitigation and adaptation in a polluted environment. Short term scientific mission: "Long term monitoring of forest ecosystems - LAI as a basic structural vegetation parameter". Host institution: CzechGlobe - Global Change Research Centre AS CR (Brno, Czech Republic).
- 2013** Grant within COST Action FP1106: STReESS - Studying Tree Responses to extreme Events: a SynthesiS. Short term scientific mission: "Detecting drought traces in the wood structure of contrasting European beech provenances". Wageningen University, Forest Ecology and Forest Management Group, Wageningen, Netherlands.
- 2014** Grant within COST Action FP1106: STReESS - Studying Tree Responses to extreme Events: a SynthesiS. Short term scientific mission: "Variability of xylem cavitation resistance in different European beech provenances". Host institution: INRA - University of Bordeaux, UMR BIOGECO, Bordeaux, France.
- 2014** Grant within COST Action FP1206: European mixed forests - Integrating Scientific Knowledge in Sustainable Forest Management. (EuMIXFOR). Short term scientific mission: "Impact of air elevated CO<sub>2</sub> concentration on growth of European beech and Norway spruce trees". Host institution: Mendel University, Faculty of Forestry and Wood Technology (Brno, Czech Republic).
- 2015** Grant within COST Action ES1308: ClimMani: Climate Change Manipulation Experiments in Terrestrial Ecosystems: Networking and Outreach. Short term scientific mission: "Impact of air elevated CO<sub>2</sub> concentration on wood anatomical structure of European beech and Norway spruce trees". Host institution: Mendel University, Faculty of Forestry and Wood Technology (Brno, Czech Republic).
- 2015** Grant within COST Action FP1204: Green Infrastructure approach: linking environmental with social aspects in studying and managing urban forests. Short Term Scientific Mission: "Transpiration of urban forests in response to environmental conditions – implications for climate change". Host institution: Mendel University, Faculty of Forestry

and Wood Technology (Brno, Czech Republic).

- 2015** Host institution: Institute of Forest Ecology, Slovak Academy of Sciences (Zvolen, Slovakia)  
Research project: Genetic and physiological foundations of adaptive variability of forest trees as a basis for the regulation of forest reproductive material.
- 2016** Host institution: Slovenian Forestry Institute (Ljubljana, Slovenia)  
Research project: Genetic variation of European beech (*Fagus sylvatica* L.) provenances in an international beech provenance trial in Serbia. Funded by project: V4-1438: Zagotavljanje gozdnega reprodukcijskega materiala za potrebe obnove gozdov ob naravnih ujmah večjega obsega ter ob pričakovanih spremembah pravnih zahtev.
- 2017** Grant within COST Action CA15226: Climate-Smart Forestry in Mountain Regions (CLIMO). Short Term Scientific Mission: "Phenotypic plasticity of leaf shape along an altitudinal gradient in European beech (*Fagus sylvatica* L.)". Host institution: University of Molise, Department of Biosciences and Territory, Pesche (IS), Italy.
- 2018** Host institution: Institute of Mediterranean Forest Ecosystems (Athens, Greece)  
Research project: Conservation and improvement of the state of Pedunculate oak (*Quercus robur* L.) forests in AP Vojvodina.
- 2018** Host institution: Institute of Forest Ecology, Slovak Academy of Sciences (Zvolen, Slovakia)  
Research project: Identification of environmental vulnerability and adaptive potential of Norway spruce (*Picea abies* Karst. L.) populations under changing climate.

## Projects participation

### International level

- 2008 – 2011** FP7-REGPOT-2007-3: Strengthening of research capacity for poplar and willow multipurpose plantation growing in Serbia (STREPOW)
- 2012 – 2016** COST Action FP1106: Studying Tree Responses to extreme Events: a SynthesiS (STReESS)
- 2012 – 2016** COST Action FP1202: Strengthening conservation: a key issue for adaptation of marginal/peripheral populations of forest tree to climate change in Europe (MaP-FGR)
- 2014 – 2016** COST Target Network TN1401: Capacity building in forest policy and governance in Western Balkan region (CAPABAL)
- 2012 – 2016** COST Action FP1201: Forest land ownership changes in Europe: significance for management and policy (FACESMAP)
- 2018 – 2020** IPA cross-border cooperation Hungary-Serbia: Natural selfness (NATESS)
- 2018 – 2021** Interreg Danube Transnational Programme: Resilient riparian forests as ecological corridors in the Mura-Drava-Danube Biosphere Reserve (REFOCuS)
- 2019 – 2022** COST Action CA18134: Genomic biodiversity knowledge for resilient ecosystems (G-BIKE)
- 2019 – 2022** COST Action CA18201: An integrated approach to conservation of threatened plants for the 21st Century (ConservePlants)
- 2020 - 2022** IPA cross-border cooperation Hungary - Serbia: Improving Floodplain Forest Management along the Danube in the HU-SRB CBC area (SafeForest)

## National level (relevant projects)

- 2011 – 2019** "Biosensing Technologies and Global System for Long-Term Research and Integrated Management of Ecosystems" (III43002), financed by the Ministry of Education, Science and Technological Development of the Republic of Serbia within the framework of integrated and interdisciplinary research for the period 2011-2019.
- 2011 – 2019** "Studying climate change and its influence on the environment: impacts, adaptation and mitigation" (III43007), financed by the Ministry of Education, Science and Technological Development of the Republic of Serbia within the framework of integrated and interdisciplinary research for the period 2011-2019.
- 2014 – 2015** "Genetic diversity of Pedunculate oak (*Quercus robur* L.) in AP Vojvodina - the basis for increased wood production in the light of climatic changes", financed by the Republic of Serbia, Autonomous Province of Vojvodina, Provincial Secretariat for Higher Education and Scientific Research. [Project Leader]
- 2017 – 2018** "Conservation and improvement of the state of Pedunculate oak (*Quercus robur* L.) forests in AP Vojvodina", financed by the Republic of Serbia, Autonomous Province of Vojvodina, Provincial Secretariat for Higher Education and Scientific Research. [Project Leader]
- 2020 – 2022** "Development of Climate Smart Forestry (CSF) concept in the Republic of Serbia through mycorrhizal modulation of polyamine metabolism in pedunculate oak (*Quercus robur* L.) trees (MYCOCLIMART)", financed by the Science Fund of the Republic of Serbia
- 2020 – 2022** "Understanding *Quercus robur* L. vitality loss using stable carbon isotopes ratio ( $\delta^{13}C$ ), drought and remotely sensed indices and development of strategies for adaptation to changing climate conditions (TreeVita)", financed by the Science Fund of the Republic of Serbia

## References

### Journals

- Vastag, E., Orlović, S., Konôpková, A., Kurjak, D., Pšidová, E., Lapin, K., Kesić, L., **Stojnić, S.** (2020). Better physiological performance of *Magnolia grandiflora* L. in comparison to *Magnolia x soulangeana* in urban environment under severe drought condition. *iForest – Biogeosciences and Forestry* 13(6): 575-583
- De Dato, G.D., Teani, A., Mattioni, C., Aravanopoulos, F.A., Avramidou, E.V., **Stojnić, S.**, Ganopoulos, I., Belletti, P., Ducci, F. (2020). Genetic analysis by nuSSR markers of silver birch (*Betula pendula* Roth) populations in their southern European distribution range. *Frontiers in Plant Science* 11: 310. doi: <https://doi.org/10.3389/fpls.2020.00310>
- Vastag, E., Coccozza, C., Orlović, S., Kesić, L., Kresoja, M., **Stojnić, S.** (2020). Half-sib lines of pedunculate oak (*Quercus robur* L.) respond differently to drought through biometrical, anatomical and physiological traits. *Forests* 11, 153. doi: <https://doi.org/10.3390/f11020153>
- Konôpková, A., Pšidová, E., Kurjak, D., **Stojnić, S.**, Petřík, P., Fleischer, P., Kučerová, J., Ježík, M., Petek, A., Gömöry, D., Kmet', J., Longauer, R., Ditmarová, L. (2020).

- Photosynthetic performance of silver fir (*Abies alba*) of different origins under suboptimal growing conditions. *Functional Plant Biology* 47(11): 1007-1018.
- Pilipović, A., Drekić, M., **Stojnić, S.**, Nikolić, N., Trudić, B., Katanić, M., Poljaković-Pajnik, L., Borišev, M., Orlović, S. (2020). Physiological responses of two pedunculate oak (*Quercus robur* L.) families to combined stress conditions - drought and herbivore attack. *Šumarski list* 11-12: 573-583.
  - Báliková, K., Červená, T., De Meo, I., De Vreese, R., Deniz, T., El Mokaddem, A., Kayacan, B., Larabi, F., Libiete, Z., Lyubenova, M., Pezdevšek Malovrh, Š., Potočki, K., Pelyukh, O., Rugani, B., Sarvasova, Z., Šálka, J., Stevanov, M., **Stojnić, S.**, Jarský, V., Vuletić, D., Zahvoyska, L., Paletto, A. (2020). How do stakeholders working on the forest-water nexus perceive payments for ecosystem services? *Forests*, 11, 12. doi: <https://doi.org/10.3390/f11010012>
  - **Stojnić, S.**, Avramidou, V.E., Fussi, B., Westergren, M., Orlović, S., Matović, B., Trudić, B., Kraigher, H., Aravanopoulos, F.A., Konnert, M. (2019). Assessment of genetic diversity and population genetic structure of Norway spruce (*Picea abies* (L.) Karsten) at its southern lineage in Europe. Implications for conservation of forest genetic resources. *Forests* 10, 258. doi: <https://doi.org/10.3390/f10030258>
  - **Stojnić, S.**, Kovačević, B., Kebert, M., Vaštag, E., Bojović, M., Stanković-Neđić, M., Orlović, S. (2019). The use of physiological, biochemical and morpho-anatomical traits in tree breeding for improved water-use efficiency of *Quercus robur* L. *Forest Systems* 28(3): e017. doi: <https://doi.org/10.5424/fs/2019283-15233>
  - Miljković, D., Stefanović, M., Orlović, S., Stanković-Neđić, M., Kesić, L., **Stojnić, S.** (2019). Wild cherry (*Prunus avium* (L.) L.) leaf shape and size variations in natural populations at different elevations. *Alpine Botany* 129, 163-174.
  - Vastag, E., Kovačević, B., Orlović, S., Kesić, L., Bojović, M., **Stojnić, S.** (2019). Leaf stomatal traits variation within and among fourteen European beech (*Fagus sylvatica* L.) provenances. *Genetika* 51, 937-959.
  - Sedlar, T., Sinković, T., Perić, I., Jarc, A., **Stojnić, S.**, Šefc, B. (2019). Hardness of thermally modified beech wood and hornbeam wood. *Šumarski list* 9-10, 425-433.
  - **Stojnić, S.**, Suchocka, M., Benito-Garzón, M., Torres-Ruiz, J.M., Cochard, H., Bolte, A., Coccozza, C., Cvjetković, B., de Luis, M., Martinez-Vilalta, J., Ræbild, A., Tognetti, R., Delzon, S. (2018). Variation in xylem vulnerability to embolism in European beech from geographically marginal populations. *Tree Physiology* 38, 173-185.
  - Pšidová, E., Živčák, M., **Stojnić, S.**, Orlović, S., Gömöry, D., Kučerová, J., Ditmarová, L., Střelcová, K., Brestič, M., Kalaji, H.M. (2018). Altitude of origin influences the responses of PSII photochemistry to heat waves in European beech (*Fagus sylvatica* L.). *Environmental and Experimental Botany* 152, 97-106.
  - Bojović, M., Nikolić, N., Borišev, M., Pajević, S., Župunski, M., Horák, R., Pilipović, A., Orlović, S., **Stojnić, S.** (2017). The diurnal time course of leaf gas exchange parameters of pedunculate oak seedlings subjected to experimental drought conditions. *Baltic Forestry* 23, 584-594.
  - **Stojnić, S.**, Orlović, S., Miljković, D., von Wuehlisch, G. (2016). Intra- and inter-provenance variation of leaf morphometric traits in European beech (*Fagus sylvatica* L.) provenances. *Archives of Biological Sciences* 68, 781-788.
  - Fady, B., Aravanopoulos, F.A., Alizoti, P., Mátyás, C., von Wühlisch, G., Westergren, M., Belletti, P., Cvjetković, B., Ducci, F., Huber, G., Kelleher, C.T., Khaldi, A., Bou Dagher Kharrat, M., Kraigher, H., Kramer, K., Mühlethaler, U., Peric, S., Perry, A., Rousi, M., Sbay, H., **Stojnić, S.**, Tijardovic, M., Tsvetkov, I., Varela, M.C., Vendramin, G.G.,

- Zlatanov, T. (2016). Evolution-based approach needed for the conservation and silviculture of peripheral forest tree populations. *Forest Ecology and Management* 375, 66-75.
- **Stojnić, S.**, Orlović, S., Miljković, D., Galić, Z., Kebert, M., von Wuehlisch, G. (2015). Provenance plasticity of European beech leaf traits under differing environmental conditions at two Serbian common garden sites. *European Journal of Forest Research* 134, 1109-1125.
  - **Stojnić, S.**, Orlović, S., Trudić, B., Živković, U., von Wuehlisch, G., Miljković, D. (2015). Phenotypic plasticity of European beech (*Fagus sylvatica* L.) stomatal features under water deficit assessed in provenance trial. *Dendrobiology* 73, 163-173.
  - **Stojnić, S.**, Orlović, S., Ballian, D., Ivanković, M., Šijačić-Nikolić, M., Pilipović, A., Bogdan, S., Kvesić, S., Mataruga, M., Daničić, V., Cvjetković, B., Miljković, D., von Wuehlisch, G. (2015). Provenance by site interaction and stability analysis of European beech (*Fagus sylvatica* L.) provenances grown in common garden experiments. *Silvae Genetica* 64, 133-147.
  - Orlović, S., **Stojnić, S.**, Pilipović, A., Pekeč, S., Mataruga, M., Cvjetković, B., Miljković, D. (2014). Variation in leaf photosynthetic traits of Wild cherry (*Prunus avium* L.) families in a nursery trial. *Šumarski list* 7-8, 381-386.
  - Pap, P., **Stojnić, S.**, Nikolić, N., Orlović, S., Marković, M., Vasić, V., Stevanov, M. (2014). Impact of *Erysiphe alphitoides* (Griffon & Maubl.) U. Braun & S. Takam. on leaf physiological parameters in Pedunculate oak (*Quercus robur* L.) saplings. *Baltic Forestry* 20, 2-9.
  - Stojanovic, D.B., Krzic, A., Matovic, B., Orlovic, S., Duputie, A., Djurdjevic, V., Galic, Z., **Stojnić, S.** (2013). Prediction of the European beech (*Fagus sylvatica* L.) xeric limit using a regional climate model: An example from southeast Europe. *Agricultural and Forest Meteorology* 176, 94-103.
  - **Stojnić, S.**, Sass-Klaassen, U., Orlovic, S., Matovic, B., Eilmann, B. (2013). Plastic growth response of European beech provenances to dry site conditions. *IAWA Journal* 34, 475-484.
  - Štajner, D., Orlović, S., Popović, B., Kebert, M., **Stojnić, S.**, Klašnja, B. (2013). Chemical parameters of oxidative stress adaptability in beech. *Journal of Chemistry*, Article ID 592695; doi: 10.1155/2013/592695.
  - **Stojnić, S.**, Orlović, S., Pilipović, A., Vilotić, D., Šijačić-Nikolić, M., Miljković, D. (2012). Variation in leaf physiology among three provenances of European beech (*Fagus sylvatica* L.) in provenance trial in Serbia. *Genetika* 44, 341-353.

### Book chapters

- **Stojnić, S.**, Orlović, S., Pilipović, A. (2019). *Ex situ* conservation of forest genetic resources in Serbia. In: Šijačić-Nikolić, M., Milovanović, J., Nonić, M. (Eds.). *Forests of Southeast Europe under a changing climate. Conservation of forest genetic resources.* Springer Nature Switzerland AG, pp. 227-237. ISBN: 978-3-319-95266-6
- Pilipović, A., Orlović, S., Kovačević, B., Galović, V., **Stojnić, S.** (2019). Selection and breeding of fast-growing trees for multiple purposes in Serbia. In: Šijačić-Nikolić, M., Milovanović, J., Nonić, M. (Eds.). *Forests of Southeast Europe under a changing climate. Conservation of forest genetic resources.* Springer Nature Switzerland AG, pp. 239-249. ISBN: 978-3-319-95266-6

- Orlović, S., Galić, Z., **Stojnić, S.**, Klašnja, B. (2012). Monitoring of forest ecosystems in Serbia. In: Mihailović, D.T. (Ed.). Essays on fundamental and applied environmental topics, NOVA Science Publisher, pp. 253-276.

## Other professional activities

<b>2012 – to date</b>	Vice-director of the Institute of Lowland Forestry and Environment, Novi Sad, Serbia
<b>2013 – to date</b>	Member of Scientific Board of the Institute of Lowland Forestry and Environment, Novi Sad, Serbia
<b>2016 – to date</b>	Member of Serbian Genetic Society
<b>2019 – to date</b>	EUFGIS (European Information System on Forest Genetic Resources) Focal Point of the Republic of Serbia
<b>2019 – to date</b>	Co-Editor-in-Chief of journal "South-East European Forestry (SEEFOR)"
<b>2019 – to date</b>	Executive Editor of journal "Poplar"
<b>2020 – to date</b>	Member of Editorial Board of journal "Conservation"
<b>2020 – to date</b>	Member of Topic Board of journal "Sustainability"
<b>2021 – to date</b>	Subject Editor in "Journal of Nature Conservation"
<b>2015 – 2016</b>	Member of Steering Committee of the University of Novi Sad