

PERSONAL INFORMATION



Erna Vaštag



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Date of birth 20/10/1992 | Nationality of Republic of Serbia

STUDIES APPLIED FOR

Short Term Mobility Grant of the European Forest Institute to the University of Florence – Department of Agriculture, Food, Environment and Forestry.

WORK EXPERIENCE

July 2018 - Present

Junior researcher

University of Novi Sad, Faculty of Agriculture, Department of Fruit growing, Viticulture, Horticulture and Landscape Architecture (Trg Dositeja Obradovića 8, Novi Sad 21000, Serbia; <http://polj.uns.ac.rs/>)

- Conducting researches, laboratory work and field experiments, performing statistical analyses, writing scientific papers, participating in international scientific conferences

Business or sector Urban forestry, Plant Physiology, Leaf gas exchange, Chlorophyll a fluorescence, abiotic stress, Photosynthesis

EDUCATION AND TRAINING

19. September 2018 -21. September 2018

Certificate of participation for the attendance of the Summer School “Modern Physiological Measurements and Data Analysis”

Czech University of Life Sciences Prague, Faculty of Forestry and Wood Sciences, Czech Republic

- Acquiring knowledge and practice of the latest physiological measurement techniques, analysis and interpretation of data

2016 - Present

Ongoing Ph.D. study in the field of forestry

University of Novi Sad, Faculty of Agriculture, Novi Sad, Serbia

- Performing statistical analyses, writing scientific papers, laboratory and field measurement techniques, a more profound knowledge related to plant physiology

2015 - 2016

Master of Landscape Architecture

University of Novi Sad, Faculty of Agriculture, Novi Sad, Serbia

- Design and reconstruction of public open spaces, 3D visualisation of design using SketchUp and AutoCAD programmes, revitalisation of public parks

2011 – 2015

Bachelor with Honours in Landscape Architecture

University of Novi Sad, Faculty of Agriculture, Novi Sad, Serbia

- Categorisation of green spaces, Conceptualisation of a Design, Design process of private spaces, 2D visualisation of design using AutoCAD program

PERSONAL SKILLS

Mother tongue(s)

Hungarian and Serbian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
Replace with name of language certificate. Enter level if known.					

Communication skills

- good communication skills gained through participation in various scientific conferences, scientific fairs, through maintaining good professional relationships with fellow researchers of different European countries

Organisational / managerial skills

- organisation of scientific research and scientific experiments, management of writing and realisation of multiple high ranking scientific papers as first author

Job-related skills

Replace with any job-related skills not listed elsewhere. Specify in what context they were acquired.
Example:

- excellent writing skills (first author of multiple high-ranking scientific papers)
- good presentation skills (as a result of presentations held during various scientific conferences)
- good statistical analysis skills (acquired throughout the Ph.D. studies and trainings)
- good time management skills (acquired throughout the Ph.D. studies)

Links to database of researches

ORCID: <https://orcid.org/0000-0002-8618-3041>
 RIS page: <https://ris2.mpn.gov.rs/istrazivac-karton/233491592>
 ResearchGate: https://www.researchgate.net/profile/Erna_Vastag

Reviewer activity

Reviewer of: Tree physiology (M21a), Silvae Genetica (M23), South-East European Forestry (M51), and Poplar (M51).

ADDITIONAL INFORMATION

Projects

- Biosensing Technologies and Global System for Long-Term Research and Integrated Management of Ecosystems (2017-2020)
- 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 (2020-2022)

Awards Prizes Scholarships

- Scholarship of Hungary "Collegium Talentum" for foreign Hungarian talents for 2018/19 and 2019/20
- Várady scholarship of Hungarian National Council for 2015/16, 2016/17 and 2017/18
- Scholarship of the Fund for Young Talents of the Republic of Serbia for the 2014/15 and 2015/16.
- Scholarship of the Hungarian National Council for Mentoring for 2013/14 and 2014/15
- In 2013. - won the second place at the 37th Festival of Scientific Works of Students of Agriculture, with international participation (title of the thesis: Analysis of Landscaping Liman Park Based on GIS Technologies; mentor: doc. dr Bojan Tepavčević)
- Scholarship of the Ministry of Education, Science and Technological Development of Republic of Serbia for the 2012/13 and 2013/14.
- Scholarship of the Hungarian National Council for 2012/13, 2013/14 and 2014/15
- Scholarship of the College for Higher Education of Hungarians in Vojvodina for the 2012/13, 2013/14 and 2014/15.

International scientific collaboration and mobility

- European Forest Institute Short-term Scientific Mobility – University of Florence, Department of Agriculture, Food, Environment and Forestry
- Délvidékért researcher mobility to National Agricultural Research and Innovation Centre Forest Research Institute in Sárovar, Hungary, 2019.
- EvoTree Summer School "Modern physiological measurements and data", Faculty of Forestry and Wood Sciences, Czech University of Life Sciences Prague September 19-21, 2018.
- CEEPUS short term student mobility – Szent István Faculty in Budapest, Hungary, April 1-May 1, 2015.

Certification

- 2019 – First Certificate in English (FCE)
- 2020 – Cambridge Certificate of Advanced English (CAE)

 Publications

M21 :

- **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. <https://doi.org/10.3390/f11020153>

M22 :

- **Vastag E.**, Orlović S., Konopkova A., Kurjak D., Coccozza C., Pšidova E., Lapin K., Kesić L., Stojnić S. (2020): *Magnolia grandiflora* L. shows better responses to drought than *Magnolia x soulangeana* in urban environment. *iForest - Biogeosciences and Forestry* 13: 575-583. [10.3832/ifer3596-013](https://doi.org/10.3832/ifer3596-013)

M23 :

- Ljubojević M., Ognjanov V., Maksimović I., Čukanović J., Dulić J., Szabó Z., **Szabó E.** (2017): Effects of Hydrogel on Growth and Visual Damage of Ornamental *Salvia* Species Exposed to Salinity. *CLEAN-Soil, Air, Water*, 45(2). <https://doi.org/10.1002/clen.201600128>
- Stojnić S., Kovačević B., Kebert M., **Vastag E.**, Bojović M., Stanković-Nedić 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*, Volume 28, Issue 3, e017. <https://doi.org/10.5424/fs/2019283-15233>
- **Vastag E.**, Kovačević B., Orlović S., L. Kesić L., Bojović M., Stojnić S (2019): Leaf stomatal traits variation within and among fourteen European beech (*Fagus sylvatica* L.) provenances- *Genetika*, Vol 51, No.3, 937-959. <https://doi.org/10.2298/GENSR1903937V>

M24

- **Vastag E.**, Kastori R., Orlović S., Bojović M., Kesić L., Pap P., Stojnić S. (2019): Effects of Oak Powdery Mildew (*Erysiphe alphitoides* (Griffon and Maubl.) U. Braun And S. Takam.) on photosynthesis of Pedunculate Oak (*Quercus robur* L.). *Zbornik Matice srpske za prirodne nauke* 136: 43-56.

M51

- **Vaštag E.**, Orlović S., Stojnić S., Vaštag T., Bojović M. (2017): Varijabilnost morfoloških osobina ploda hrasta lužnjaka (*Quercus robur* L.) iz Novog Sada. *Topola* (199/200), 95-105.
- Bojović M., Nikolić N., Borišev M., Pajević S., Horák R., Pavlović L., **Vaštag E.** (2017): Uticaj suše i opravka na parameter razmene gasova kod populacija hrasta lužnjaka gajenih u polu-kontrolisanim uslovima, *Topola* (199/200), 193-207.
- **Vastag E.**, Orlović S., Ljubojević M., Čukaović J., Pavlović L., Vestek A., Bojović M. (2018): Diverzitet dendroflora jednog od urbanih blokova gradske četvrti Novo Naselje u Novom Sadu, *Topola* (201/202), 33-43.
- Kesić L., Stojnić S., Orlović S., Pavlović L., Lozjanin R., Tepavac A., **Vaštag E.** (2018): Varijabilnost morfoloških karaktera žira hrasta lužnjaka (*Quercus robur* L.), kitnjaka (*Q. petraea* (MATT.) LIEB.) i cera (*Q. cerris* L.), *Topola* 201/202, 187-201.
- **Vastag E.**, Kesić K., Orlović S., Karaklić V., Zorić M., Vuksanović V., Stojnić S. (2019): Physiological Performance of Sweetgum (*Liquidambar styraciflua* L.) and Norway Maple (*Acer platanoides* L.) Under Drought Condition in Urban Environment, *Topola* 204: 17-27.

M34

- **Vaštag E.**, Kastori R., Orlović S., Bojović M., Kesić L., Pap P., Stojnić S. (2019): Application of chlorophyll a fluorescence technique in the estimation of the negative effects of *Erysiphe alphitoides* (Griffon and Maubl.) U. Braun and S. Takam. On photosynthesis of *Quercus robur* L. Joint Meeting IUFRO "PHYLLOSPHERE DISEASES", 6-10. May 2019., Florence, Italy.

- **Vašttag E.**, Kovačević B., Orlović S., Bojović M., Kesić L., Petrov B., Stojnić S. (2018): Inter- and intra- population variation of leaf stomatal traits of European beech (*Fagus sylvatica* L.) provenances. 8th Edition of the International Symposium Forest and Sustainable Development, 25-27. oktobar 2018., Braşov, Romania.
- Stojnić S., Kesić L., Topić M., **Vašttag E.**, Orlović S. (2018): Adaptive variation in physiological, anatomical and morphological traits of European beech populations in Southern Europe. 7th Balkan Botanical Congress, 10-14. September 2018., Novi Sad, Serbia.
- Zorić M., Orlović S., Simić M., Babić Z., Petrov B., Kebert M., **Vašttag E.** (2018): Forest Ecosystem Services: Air Voc Monitoring. 8th Edition of the International Symposium Forest and Sustainable Development, 25-27. October 2018., Braşov, Romania.
- Petrov B., Orlović S., Stojnić S., Zorić M., **Vašttag E.**, Poljaković-Pajnik L., Stojanović D. (2018). Remote Sensing and GIS as an Unavoidable Part of the Natural Resource Management and Forestry Data Analysis. 8th Edition of the International Symposium Forest and Sustainable Development, 25-27. October 2018., Braşov, Romania.
- **Vašttag E.**, Orlović S., Zlatković M., Kesić L., Zorić M., Bojović M., Stojnić S. (2019): Chlorophyll a fluorescence techniques in detection and monitoring of severe biotic stress of pedunculate oak (*Quercus robur* L.) caused by powdery mildew infection. X International Scientific Agriculture Symposium "Agrosym 2019", 3-6. October 2019., Jahorina, BiH.
- Kesić L., Orlović S., Katanić M., **Vašttag E.**, Lozjanin R., Tepavac A., Stojnić S. (2019): Morphological variability of *Quercus robur* L. Leaf in native population. X International Scientific Agriculture Symposium "Agrosym 2019", 3-6. October 2019., Jahorina, BiH.
- Kesić L., Orlović S., **Vašttag E.**, Karaklić V., Milović M., Stojnić S. (2020): Variability of leaf anatomical properties in pedunculate oak genotype (*Quercus robur* L.) in natural population. Forest science for future forests: forest genetic monitoring and biodiversity in changing environments, 21-25. September 2020., Ljubljana, Slovenia.
- **Vašttag E.**, Orlović S., Kesić L., Stojnić S. (2020): Assessing the negative effects of severe powdery mildew infection on chlorophyll a fluorescence and stomatal characteristics of *Quercus robur* L. Forest science for future forests: forest genetic monitoring and biodiversity in changing environments 21-25. September 2020., Ljubljana, Slovenia.

M33

- Sabo Z., **Sabo E.** (2015): Primer za izradu katastra predstavnika roda (*Cedrus* sp.) na zelenom prostoru kampusa Univerziteta u Novom Sadu, Zbornik radova sa 39. Smotre naučnih radova studenata Poljoprivrede i Veterinarske medicine sa međunarodnim učešćem, 20. November 2015., Novi Sad, Serbia. p39-43.
- **Sabo E.** (2013): Analiza pejzažnog uređenja Limanskog parka bazirana GIS tehnologijama, Zbornik radova sa 37. Smotre naučnih radova studenata Poljoprivrede i Veterinarske medicine sa međunarodnim učešćem, 20. November 2013., Novi Sad, Serbia. p55-60.
- **Vašttag E.**, Orlović S., Stojnić S. (2018): Az éghajlatváltozás erdőkre gyakorolt hatása – génmegőrzési módszerek és azok eddigi alkalmazása a kocsányos tölgy (*Quercus robur* L.) példáján Szerbiában. A Magyar Tudomány Napja a Délvidéken. Vajdasági Tudományos Társaság, 10. November 2018., Novi Sad, Serbia.
- Kastori R., **Vašttag E.** (2018): A klímaváltozás hatása a növények életfolyamataira és a termesztett növények termésére. A Magyar Tudomány Napja a Délvidéken. Vajdasági Tudományos Társaság, 10. November 2018., Novi Sad, Serbia.

M64

- Szabó Z., **Szabó E.** (2012): A tök (*Cucurbita* sp.) gömb alakú termése, 13. Vajdasági Magyar Tudományos Diákköri Konferencia - Rezümékötet, 16-18. November 2012., Subotica, Serbia. p84-86.
- **Szabó E.** (2013): Az újvidéki Limáni park növényzetének és közterületi elemeinek elemzése, 12. Vajdasági Magyar Tudományos Diákköri Konferencia - Rezümékötet, 15-17. November 2013., Novi Sad, Serbia. p66-68.
- **Szabó E.** (2014): A cédrusok szerepe (*Cedrus* sp.) az Újvidéki Egyetem kampuszának zöld övezetén, 13. Vajdasági Magyar Tudományos Diákköri Konferencia - Rezümékötet, 21-23. November 2014., Novi Sad, Serbia. p34-36.
- **Vašttag E.**, Kesić L. (2018): A dendroflóra diverzitásának jelentősége és esettanulmánya egy vársi blokk példáján Újvidéken. 17. Vajdasági Magyar Tudományos Diákköri Konferencia - Rezümékötet, 23-25. November 2018., Novi Sad, Serbia. p78.