

# Dr. Viorica Nagavciuc

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<https://scholar.google.com/citations?user=Pn6VdKQAAAAJ&hl=ro&oi=ao>

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Paleoclimate Dynamics, Climate Sciences  
Alfred Wegener Institute for Polar and Marine Research,  
Kosliner Str. 6e, Bremerhaven,  
27570, Germany

Department of Forestry,  
Ștefan cel Mare University of Suceava  
Universității Str. 13, Suceava,  
720229, România

## PERSONAL INFORMATION

**Name:** Viorica Nagavciuc

**Profession:** PostDoc, Ph.D. in Forestry

**Date of birth:** October 16<sup>th</sup>, 1989

**Place of birth:** Fundurii Vechi, Republic of Moldova

**Nationality:** Romania / Republic of Moldova

**h-index:** 7 Google Scholar, 6 ResearchGate, 5 Web of Knowledge



## SCIENTIFIC INTERESTS

- Climate
- Paleoclimatology
- Global Climate Change
- Dendrochronology
- Dendroclimatology
- Stable Isotopes
- Environment
- Ecology
- Geographic Information System
- Geography

## EMPLOYMENT

01/2021-present	<i>Postdoc</i> , Forest Biometrics Laboratory, Faculty of Forestry, Ștefan cel Mare University of Suceava, Romania
03/2020-present	<i>Postdoc</i> , Paleoclimate Dynamics, Climate Sciences, Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, 27570, Germany
03/2019-02/2020	<i>Research assistant</i> , Faculty of Forestry, Ștefan cel Mare University, Suceava, Romania
01/2019-01/2020	<i>Research assistant</i> , National Institute for Research and Development of Isotopic and Molecular Technologies, Department of Mass Spectrometry, Chromatography and Applied Physics, Cluj-Napoca, Romania
03/2013-03/2019	<i>Research assistant and stable isotope technician</i> , Stable Isotope Laboratory, Ștefan cel Mare University, Suceava, Romania

## EDUCATION University

10/2014–09/2019	<b>Doctoral studies in Forestry</b> , Ștefan cel Mare University of Suceava, Faculty of Forestry, Suceava, Romania
Dissertation	"Transfer of the climatic signal in physical and geochemical parameters in annual tree ring. Support for paleoclimatic reconstructions"
Advisor	Prof. Dr. ing. Ionel Popa
Grade	Summa Cum Laude (top grade)
09/2017–09/2018	<b>Stay abroad in the group of Prof. Jan Esper</b> , Gutenberg University, Department of Geography Mainz, Germany
09/2016–11/2016	<b>Stay abroad in the group of Prof. Danny McCarroll</b> , Swansea University, Department of Geography, Swansea, United Kingdom
10/2012–06/2014	<b>Master Diploma in Geography, GIS and Spatial Planning</b> , Ștefan cel Mare University, Faculty of History and Geography, Department of Geography, Suceava, Romania
Thesis	The temporal and spatial distribution of $\delta^{18}\text{O}$ and $\delta^2\text{H}$ in the precipitations in Romania
Advisor	Dr. Aurel Peșoiu
Grade	Excellent (top grade)

10/2009–07/2012 **Diploma in Geography**, Ștefan cel Mare University, Faculty of History and Geography, Department of Geography, Suceava, Romania.  
Thesis "Sitna hydrographic basin, physical-geographic study"  
Grade Excellent (top grade)

### HONORS AND AWARDS

2018 ATR-AWARD - BEST ORAL PRESENTATION AT THE CONFERENCE TRACE 2018", TRACE Conference 24.-28.04.2018, Greifswald, Germany  
2014 Special mention award, Gala of Moldavian students, 2<sup>nd</sup> ed., Chișinău, Republic of Moldova  
2014 Medal for academic excellence, Federation of Sports Societies in Romania, Chișinău, Republic of Moldova

### RESEARCH GRANTS AWARDED (AS PI)

01/2021-12/2022 Postdoctoral research project (PD), number PN-III-P1-1.1-PD-2019-0469, founded by UEFISCDI Romania, project title: Looking into the past to anticipate the future: Extreme climate variability in Dobrogea Region from a paleo perspective based on stable oxygen isotope in tree rings, USV Suceava  
2019 Mobility projects for researchers, PN-III-P1-1.1-MC-2019-0765, INCDTIM Cluj-Napoca  
2017 Mobility projects for researchers (Workshop: Stable isotopes in biosphere systems, Sydney, Australia), PN-III-P1-1.1-MC-2017-1335, USV Suceava

### MEMBER OF RESEARCH GRANTS

2019 Underwater geological structures favorable to the generation and accumulation of biogenic methane - associated geobiochimic processes "acronym - uBioGas, project code: PN-III-P1-1.2-PCCDI-2017-0178 (PI: Ioan Turcu, INCDTIM Cluj-Napoca)  
2018-2019 Reconstruction and analysis of temperature changes and North-Atlantic Oscillation in winter in Europe over the past 1000 years: a perspective based on the study of underground glaciers (PI, Aurel Perșoiu, USV Suceava)  
2018 Identifying, mapping and specify inventory of the most representative virgin and quasi-virgin forests in priority areas of WWF in Romania (PI: Cătălin Roibu – USV Suceava)  
2017 Identifying, mapping and specify inventory of the most representative virgin and quasi-virgin forests in priority areas of WWF in Romania (PI: Cătălin Roibu – USV Suceava)  
2016 Identifying, mapping and specify inventory of the most representative virgin and quasi-virgin forests in priority areas of WWF in Romania (PI: Cătălin Roibu – USV Suceava)  
2015-2017 Natural and cultural factors of control of Neolithic expansion in SE Europe (PI: Aurel Perșoiu – USV Suceava)  
2015-2016 Quantification of the climate – speleothem stable isotopes relationships on a W-E European transect (PIs Aurel Perșoiu, USV Suceava and Dominique Genty, CNRS France)  
2014-2017 Forest response to climate change predicted from multicentury climate proxy-records in the Carpathian region (PI Cătălin Roibu, USV Suceava)  
2014-2016 Water stable isotope study of the climate-river discharge relationship(s) in the Lower Danube Watershed (PI, Aurel Perșoiu, USV Suceava)  
2013-2014  $\delta^{18}\text{O}$  in precipitation and tree rings - climate relationship in Hungary and Romania along a West-East humidity gradient (PIs Aurel Perșoiu, USV Suceava and Zoltán Kern, Hungarian Academy)  
2012-2014 RoIsoscapes - understanding the link between climate and stable isotopes in precipitation, drip water and newly precipitated cave calcite, in Romania, (PI, Aurel Perșoiu, USV Suceava)

### PREPRINTS AND IN PREPARATION

- [19] **A new tree ring-based summer drought reconstruction for eastern Europe back to 1768 CE confirms historical documentary evidence and reveals large-scale teleconnection patterns**  
Cătălin-Constantin Roibu, Viorica Nagavciuc\*, Monica Ionita, Ionel Popa, Sergiu-Andrei Horodnic, Andrei Mursa, Ulf Büntgen  
Climate Dynamics - **under review**
- [18] **A ~700 years perspective on 21st century drying in the eastern part of Europe**

## PUBLICATIONS IN PEER-REVIEWED JOURNALS

- [17] **Compound Hot and Dry Events in Europe: Variability and Large-Scale Drivers**  
*Ionita M., Diana E. Caldarescu and Nagavciuc V.*  
2021, *Frontiers in Climate*, <https://doi.org/10.3389/fclim.2021.688991>
- [16] **Changes in drought features at European level over the last 120 years**  
*Ionita M., and Nagavciuc V.*  
2021, *Natural Hazards and Earth System Sciences*, 21, 1685–1701, 2021  
<https://doi.org/10.5194/nhess-21-1685-2021>
- [15] **Extreme Floods in the Eastern Part of Europe: Large-Scale, drivers and Associated Impacts**  
*Ionita M., and Nagavciuc V\**  
2021, *Water*, 13(8), 1122; <https://doi.org/10.3390/w13081122>
- [14] **Past megadroughts in central Europe were longer, more severe and less warm than modern droughts**  
*M. Ionita, M. Dima, V. Nagavciuc, P. Scholz, G. Lohmann*  
2021, *Communications Earth & Environment* 2, 61, <https://doi.org/10.1038/s43247-021-00130-w>
- [13] **Isotopic and Elemental Content of Deep-Sea Sediments from the Black Sea. Preliminary Results,**  
*Viorica Nagavciuc, Romulus H. Puscas, Gabriela Ioana Cristea, Cezara Voica, Radu Stelian, Dana A. Magdas, Ioan Turcu, Tiberiu Sava, Maria Ilie & Gabriel Ion*  
2021, *Analytical Letters* 54 (1-2) 280-294, <https://doi.org/10.1080/00032719.2020.1750624>
- [12] **On the curious case of the recent decade, mid-spring precipitation deficit in central Europe**  
*M. Ionita, V. Nagavciuc, R. Kumar and O. Rakovec*  
2020, *npj Climate and Atmospheric Science* 3:49 ; <https://doi.org/10.1038/s41612-020-00153-8>
- [11] **Forecasting low flow conditions months in advance through teleconnection patterns, with a special focus on summer 2018**  
*Ionita M., and Nagavciuc V*  
2020, *Scientific Reports* 10, Article number: 13258, <https://doi.org/10.1038/s41598-020-70060-8>
- [10] **Rivers in the sky, flooding on the ground: the role of atmospheric rivers in inland flooding in central Europe**  
*Ionita M., Nagavciuc V., and Guan B.*  
2020, *Hydrology and Earth System Sciences (HESS)*, 24, 5125-5147, <https://doi.org/10.5194/hess-24-5125-2020>
- [9] **The Climatic Response of Tree Ring Width Components of Ash (*Fraxinus excelsior* L.) and Common Oak (*Quercus robur* L.) from Eastern Europe**  
*Cătălin-Constantin Roibu, Victor Sfeclă, Andrei Mursa, Monica Ionita, Viorica Nagavciuc, Francisca Chiriloeai, Ilarie Leșan and Ionel Popa*  
2020, *Forests* 11(5), 600; <https://doi.org/10.3390/f11050600>
- [8] **Climate signals in carbon and oxygen isotope ratios of *Pinus cembra* tree-ring cellulose from the Călimani Mountains, Romania,**  
*Viorica Nagavciuc, Zoltán Kern, Monica Ionita, Claudia Hartl, Oliver Konter, Jan Esper, Ionel Popa*  
2020, *International Journal of Climatology* 40 (5) 2539-2556, <https://doi.org/10.1002/joc.6349>;
- [7] **Tracing the interactions between precipitation and river water in the Northern Carpathian Mountains Base on the evaluation of water isotope data,**  
*Nagavciuc V., Bădăluță C A, Ionita M.,*  
2019, *Geosciences* 9(5), 198; <https://doi.org/10.3390/geosciences9050198>
- [6] **Stable H and O isotope-based investigation of moisture sources and their role in river and groundwater recharge in the NE Carpathian Mountains, East-Central Europe,**

Bădăluță C A, Perșoiu A, Ionita M, **Nagavciuc V**, Bistricean P I.

2019, Isotopes in Environmental & Health Studies Journal 55 (2) 161-178; doi:10.1080/10256016.2019.1588895

- [5] **Different climate response of three tree ring proxies of Pinus Sylvestris from Eastern Carpathians, Romania,**  
**Nagavciuc V.,** Roibu C.C., Ionita M., Mursa A., Cotos M.G., Popa I.,  
2019, Dendrochronologia, 54, 56-63, <https://doi.org/10.1016/j.dendro.2019.02.007>
- [4] **Stable oxygen isotopes in Romanian oak tree rings record summer droughts and associated large-scale circulation patterns over Europe,**  
**Nagavciuc V.,** Ioniță M., Perșoiu A., Popa I., Loader N.J., McCarroll D.,  
2019, Climate Dynamics Journal, 52:6557-6568, doi.org/10.1007/s00382-018-4530-7;
- [3] **Aerial decay influence on the stable oxygen and carbon isotope ratios in tree ring cellulose,**  
**Nagavciuc V.,** Kern Z., Perșoiu A., Dóra K., Popa I.,  
2018, Dendrochronologia, 49 (2018) 110-117, <https://doi.org/10.1016/j.dendro.2018.03.007>
- [2] **Transfer of environmental signals from surface to the underground at Ascunsă Cave, Romania,**  
Drăgușin, V., Balan, S., Blamart, D., Forray, F. L., Marin, C., Mirea, I., **Nagavciuc, V.,** Perșoiu, A.,  
Tîrlă, L., Tudorache, A. and Vlaicu, M.  
2017, Hydrol. Earth Syst. Sci., 21, 5357–5373, doi:10.5194/hess-2016-625.
- [1] **Pattern of richness and distribution of groundwater Copepoda (Cyclopoida: Harpacticoida) and Ostracoda in Romania: an evolutionary perspective,**  
Iepure, S., Feurdean, A. N., Bădăluță, C., **Nagavciuc, V.,** Perșoiu, A  
2015, Biological Journal of the Linnean Society; DOI:10.1111/bij.12686, Impact Factor 2.26. 2016, 119, 593–608

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#### BOOKS, BOOK CHAPTERS

- [1] **The influence of the Carpathian chain on the variability of precipitation isotopes and the relationship with the large-scale atmospheric circulation,**  
**Viorica Nagavciuc,** Carmen-Andrea Bădăluță, Monica Ionita,  
Book chapter in Stable Isotope Studies of the Water Cycle and Terrestrial Environments, Editor ...  
Published By The Geological Society, London, Special Publications, 507, 16 September 2020,  
<https://doi.org/10.1144/SP507-2020-69>, Print ISSN 0305-8719, Online ISSN 2041-4927

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#### PUBLICATIONS IN NONPEER-REVIEWED JOURNALS

- [4] **Potențialul izotopilor stabili în cercetări dendroclimatologice,**  
**Nagavciuc, V.,**  
2015, Revista de Silvicultură și Cinegetică, nr 37/2015, 33-37. [http://progresulsilvic.ro/wp-content/uploads/RSC\\_37\\_2015.pdf](http://progresulsilvic.ro/wp-content/uploads/RSC_37_2015.pdf)
- [3] **Dynamics of the Structuring Vectors of Geographical Landscapes in Bucovina, Romania,**  
Chiriță, V., Bădăluță, C., **Nagavciuc, V.,**  
2014, Journal of Settlements and Spatial Planning, 5(3): 39-46
- [2] **Using GIS techniques in the analysis of land use in the Soloneț river catchment between 1856 and 2011,**  
Bădăluță, C.A., Bistricean, P.I., **Nagavciuc, V.,**  
2013, GEOREVIEW, Scientific Annals of Ștefan cel Mare University of Suceava. Geography Series, 23 (2): 23-33.
- [1] **Observations on the spatial variability of the Prut river discharges,**  
Briciu, A.E., Mihăilă, D., Lazurcă, L.G., Costan, L.A., **Nagavciuc, V.,** Bădăluță, C.A.,  
2011, Scientific Annals of the Ștefan cel Mare University, Suceava, Romania, 20 (1):45-56.

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#### TRAVEL GRANTS, FELLOWSHIPS

- 2017-2018 Scholarship in the CEE Programme for young researchers for a research stay in Germany, according to DBU - German Environmental Foundation

- 2017 The EGU currently financial support for Early Career Scientist's Travel Support (ECSTS) to attend the General Assembly 2017
- 2016 Erasmus + placement grand for attendance at Swansea University during 01 September -30 October 2016
- 2016 INTIMATE scholarship to support attendance of The 3rd An INTIMATE Example Research Training School, on 5-11th June 2016 in Stara Kiszewa, Poland.
- 2016 Participation on the short course: Detecting and dating growth disturbances, organized during the conference Tree Rings in Archaeology, Climatology and Ecology conference (TRACE 2016), 11 May 2016, Białowieża Poland
- 2016 Grants funded by the Leading National Research Centre (KNOW): Centre for Polar Studies, University of Silesia to support participations at Tree Rings in Archaeology, Climatology and Ecology conference (TRACE 2016), 11-15 May 2016, Białowieża Poland
- 2015 International Summer School Bolin Centre for Climate Research, "Isotopes in Climate and the Earth System", Port Charlotte, Islay, Scotland, 23–29 August, 2015
- 2015 International Doctoral Course, "Stable Isotopes in Forest Ecosystem Research", Nancy, France 1-5 June
- 2015 Scholarship to support attendance of the "Dendrochronology, Ecophysiology and Below-ground Biodiversity Workshop", European Forest Research & Innovation, EUFORNNO, Slovenian Forestry Institute, Fruška Gora, Serbia, 8-12 June
- 2015 PAGES scholarship to support attendance of the "Climate variability and human impacts in Central and Eastern Europe during the last two millennia" conference, Gdansk, Poland, 17-19 June
- 2014 European Regional Development Fund to support attendance of a Thermoluminescence and Optical Stimulated Luminescence Short Course, University of Szeged, Hungary, 27-30 October
- 2014 European Regional Development Fund to support attendance of a Geophysical applications in archaeology and environmental science, Summer School 22-25 September, Timișoara, Romania

## PROFESSIONAL ACTIVITIES

- 2019 Workshop "Climatic and hydrological extremes: linking the instrumental period of the last decades with the more distant past", PAGES Extreme Events and Risk Assessment Integrative Activity (IA), Koblenz, Germany (18-20 February 2019)
- 2018 Research visit ( $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  ratios and large-scale atmospheric circulation) at the Alfred Wegener Institute for Polar and Marine Research, Paleoclimate Dynamics Group, Bremerhaven, Germany (1-30 September)
- 2018 Research visit ( $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  ratios and large-scale atmospheric circulation) at the Alfred Wegener Institute for Polar and Marine Research, Paleoclimate Dynamics Group, Bremerhaven, Germany (7-26 May)
- 2018 Research visit ( $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  ratios and large-scale atmospheric circulation) at the Alfred Wegener Institute for Polar and Marine Research, Paleoclimate Dynamics Group, Bremerhaven, Germany (1-10 February)
- 2017-2018 Research visit at the Johannes Gutenberg University, Geographisches Institut, Climatology, Mainz, Germany (August 2017 – August 2018)
- 2017 Research visit ( $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  analyses in tree ring cellulose) at the Institute for Geological and Geochemical Research, Hungarian Academy of Sciences, Budapest, Hungary (01 – 17 October)
- 2016 Research visit ( $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  analyses in oak tree ring cellulose) Department of Geography, College of Science, Swansea University, Singleton Park, Swansea SA2 8PP, UK (1 September-30 October)
- 2016 Research visit ( $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  analyses in tree ring cellulose) at the Institute for Geological and Geochemical Research, Hungarian Academy of Sciences, Budapest, Hungary (4 – 17 April)
- 2015- Member European Geosciences Union (EGU)
- 2015- Member European Society for Isotope Research (ESIR)
- 2015 Research visit ( $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  analyses in tree ring cellulose) at the Institute for Geological and Geochemical Research, Hungarian Academy of Sciences, Budapest, Hungary (1 – 15 November)
- 2015- External member of the Institute for Geological and Geochemical Research, Research Centre for Astronomy and Earth Sciences, Hungarian Academy of Sciences
- 2015 Research visit ( $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  analyses in tree ring cellulose) at the Institute for Geological and Geochemical Research, Hungarian Academy of Sciences, Budapest, Hungary (22 June – 3 July)
- 2014 Research visit ( $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  analyses in tree ring cellulose) at the Institute for Geological and Geochemical Research, Hungarian Academy of Sciences, Budapest, Hungary (31 October – 28 November)



- 2013 Research visit ( $\delta^2\text{H}$  and  $\delta^{18}\text{O}$  analyses in water) at the Institute for Geological and Geochemical Research, Hungarian Academy of Sciences, Budapest, Hungary (28 September - 10 October)
- 2013 Symposium secretariat, 29<sup>th</sup> National Symposium on Geomorphology, Suceava, Romania, May, 2013
- 2013- Member of the Association of Applied Geography GEOCONCEPT, Ștefan cel Mare University, Suceava, Romania

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## EDITORIAL ACTIVATES

- 2021 - Water – Topics Board Editors

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## REVIEW ACTIVATES

- 2021 - Journal of Geophysical Research, <https://agupubs.onlinelibrary.wiley.com/journal/21562202>
- 2021 - Global and Planetary Change, <https://www.journals.elsevier.com/global-and-planetary-change>
- 2021 - Hydrological Sciences Journal, <https://www.tandfonline.com/toc/thsj20/current>
- 2020 - Biogeosciences <https://www.biogeosciences.net/>
- 2020 - International Journal of Biometeorology, <https://www.springer.com/journal/484>
- 2020 - Forests, <https://www.mdpi.com/journal/forests>
- 2019 - Atmospheric Research, <https://www.journals.elsevier.com/atmospheric-research>

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## CONFERENCES

### 2021

**Extreme Floods in the Eastern Part of Europe: Large-Scale, drivers and Associated Impacts**, Alfred Wegener Institute for Polar and Marine Research, AWI 06 September 2021

**Extreme aridity in the south-eastern part of Romania**, European Geosciences Union, General Assembly - Gather Online 2021, 19-30 April 2021, Vienna, Austria; AUTHOR

### 2020

**Different climate response of three tree ring proxies of *Pinus sylvestris* from the Eastern Carpathians, Romania**, European Geosciences Union, General Assembly - Online 2020, 4 – 8 May 2020, Vienna, Austria; AUTHOR

**Components of past cold mega-droughts and modern warm dry events in central Europe could interfere constructively in the future**, European Geosciences Union, General Assembly - Online 2020, 4 – 8 May 2020, Vienna, Austria; COAUTHOR

### 2019

**Analysis of the isotopic composition of the deep-sea sediments from the Black Sea**, 12th International Conference on Processes in Isotopes and Molecules (PIM 2019), 25-27 September 2019 in Cluj-Napoca, Romania, AUTHOR.

**Five centuries of summer temperature change in the eastern Carpathian Mountains and its relationship with the Atlantic Multidecadal Oscillation**, “TRACE 2019 – Tree Rings in Archaeology, Climatology and Ecology”, 7-10 May, San Leucio - Caserta, Italy 2019; COAUTHOR

**From  $\delta^{18}\text{O}$  in precipitation to  $\delta^{18}\text{O}$  in tree ring - a multi-site comparison of European beech (*Fagus sylvatica*), Norway spruce (*Picea abies* L.), and Scots pine (*Pinus sylvestris*)**, “TRACE 2019 – Tree Rings in Archaeology, Climatology and Ecology”, 7-10 May, San Leucio - Caserta, Italy 2019; AUTHOR

**Interaction between precipitation and river water in the Northern Carpathian Mountains, Romania**, European Geosciences Union, General Assembly 2019, 7 – 12 April 2019, Vienna, Austria; AUTHOR

### 2018

**Influence of decayed wood in tree rings stable isotopes analysis**, “TRACE 2018 – Tree Rings in Archaeology, Climatology and Ecology”, 24-27 April 2018, Greifswald, Germany; AUTHOR

**A calibration study of the climate signal recorded by the stable oxygen and carbon isotopes in Swiss stone pine (*Pinus cembra* L.) tree-ring from the Eastern Carpathians, Romania and its relevance for paleoclimatic reconstructions**, European Geosciences Union, General Assembly 2018, 8 – 13 April 2018, Vienna, Austria; AUTHOR

## 2017

**Oak tree ring stable isotope records of late-summer and autumn temperature changes in the Eastern European lowlands**, European Geosciences Union, General Assembly 2017, 23 – 28 April 2017, Vienna, Austria; AUTHOR

**The Stable Isotopic Composition of Rivers in Romania**, ESIR Isotope Workshop XIV, European Society for Isotope Research – ESIR 2017, Băile Govora, Romania, June 25 – 29, 2017; COAUTHOR

**Stable Isotopic Perspectives on Hydroclimatic Processes in Suceava River Basin**, ESIR Isotope Workshop XIV, European Society for Isotope Research – ESIR 2017, Băile Govora, Romania, June 25 – 29, 2017; COAUTHOR

**Stable Isotopic Composition of Precipitation in Romania**, ESIR Isotope Workshop XIV, European Society for Isotope Research – ESIR 2017, Băile Govora, Romania, June 25 – 29, 2017; COAUTHOR

**Oxygen and Carbon Stable Isotope Variability in *Pinus Cembra* L. - a 400-year Perspective of Summer Climatic Conditions in the Northern Carpathian Mts. (Eastern Europe)** ESIR Isotope Workshop XIV, European Society for Isotope Research – ESIR 2017, Băile Govora, Romania, June 25 – 29, 2017; AUTHOR

**Influence of Wood Decay on the Isotopic Composition of Tree Rings**, ESIR Isotope Workshop XIV, European Society for Isotope Research – ESIR 2017, Băile Govora, Romania, June 25 – 29, 2017; AUTHOR

## 2016

**A MIS 5e high-altitude speleothem  $\delta^{13}\text{C}$ - $\delta^{18}\text{O}$  record from the Romanian Carpathians, Central and Eastern Europe** Paleoscience Symposium: From Local to Global PAGES2016, 23-24 May, 2016, Cluj-Napoca, Romania; COAUTHOR

**Environmental and social interactions during the Neolithic expansion in South-Eastern Europe**, 41st International Symposium on Archaeometry (ISA), 15 – 21 May 2016, Kalamata, Greece; COAUTHOR

**Correlation between daily climatic data and oxygen isotope composition in cellulose of *Pinus cembra* L. tree rings (Călimani Mts. Romania)**, Tree Rings in Archaeology, Climatology and Ecology (TRACE 2016), 11-15 May 2016, Białowieża Poland; AUTHOR

**Evaluation of the age related systematic patterns of stable oxygen and carbon isotope values of Swiss stone pine (*Pinus cembra* L.)**, Tree Rings in Archaeology, Climatology and Ecology (TRACE 2016), 11-15 May 2016, Białowieża Poland; COAUTHOR

**A 400 years long summer temperature reconstruction based on maximum density in *Pinus cembra* L. tree rings, in Eastern Carpathian Mts., Romania**, Tree Rings in Archaeology, Climatology and Ecology (TRACE 2016), 11-15 May 2016, Białowieża Poland; COAUTHOR

**400 years of summer climatic conditions in the N Carpathian Mts. (eastern Europe) based on O and C stable isotopes in *Pinus Cembra* L tree rings**, European Geosciences Union, General Assembly 2016, 17 – 22 April 2016, Vienna, Austria; AUTHOR

**Evaluation of the age related systematic patterns of stable oxygen and carbon isotope values of Swiss stone pine (*Pinus cembra* L.) Eastern Carpathians, Romania”** European Geosciences Union, General Assembly 2016, 17 – 22 April 2016, Vienna, Austria; AUTHOR

## 2015

**Oxygen isotope composition of tree-rings and climate variability in Eastern Carpathians, Romania**, International Scientific Conference on Dendrochronology Climate and Human History in the Mediterranean Basin, EuroDendro 2015”, 18-23 October 2015, Antalya Turkey. AUTHOR

**The climatic signal recorded by Swiss stone pine (*Pinus Cembra* L.) tree-ring oxygen and carbon isotopes in NE Romania**, ESIR Isotope Workshop XIII, Zadar, Croatia, 20 – 24 September, 2015; AUTHOR

**Stable isotopes composition from water – a new method in climatology research Study case – Scărișoara Ice Cave Climate**, Symposium of Applied Climatology ”I. F. Mihailescu”, 19-21 August, 2015, Constanța, COAUTHOR

**How does human perception influences the registration of hydric regime variability in historical documents**, International Conference: ”Climate variability and human impacts in Central and Eastern Europe during the last two millennia, 17-19 June 2015, Gdansk, Poland; AUTHOR

**Favorability or the restrictiveness of the relief and vegetation in the expansion of human settlements. Study case: Soloneț basin between 1772 – 2011**, The 10-th International Symposium Present Environment and Sustainable Development, 5-7 June, Iași, Romania; COAUTHOR

**Stable isotope composition of well from Suceava River basin in the cold season**, The 10-th International Symposium Environmental Quality and Land Use, 8-10 May 2015, Suceava, Romania; COAUTHOR

**Temporal and spatial distributions of  $\delta^{18}\text{O}$  and  $\delta^2\text{H}$  in precipitation in Romania**, European Geosciences Union, General Assembly 2015, 12 – 17 April 2015, Vienna, Austria; AUTHOR

**Stable isotopic composition of bottled mineral waters from Romania**, European Geosciences Union, General Assembly 2015, 12 – 17 April 2015, Vienna, Austria; COAUTHOR

**Stable isotope evidence for shifting Mediterranean climatic influences in Western Romania, East-Central Europe**, European Geosciences Union, General Assembly 2015, 12 – 17 April 2015, Vienna, Austria; COAUTHOR

## 2014

**Stable isotopes in precipitation - a new method of analysis of climate change - Case Study: Suceava weather station**, The 5 Edition International Symposium ”Romania between Occident and Orient”, November 1, 2014, Fălticeni, Romania; AUTHOR

**Dynamics of the structuring vectors of geographical landscapes. Case study: Soloneț basin, Suceava County, from 1772 to 2012**, The 6 Edition Conference Rural Space and Local Development, July 23-27, 2014, Cluj-Napoca, Romania; COAUTHOR

**Forest dynamics in Soloneț watershed**, Geography Conference Geoconcept Edition III, Suceava, Romania, May 23, 2014; COAUTHOR

**Stable isotope distribution in precipitation in Romania and its relevance for palaeoclimatic studies**, European Geosciences Union General Assembly 2014, Vienna, Austria, 27 April – 02 May 2014; COAUTHOR

**Characteristic of the water in Eastern Carpathian based on the signal transmitted by the isotopic composition of  $\delta^{18}\text{O}$  and  $\delta^2\text{H}$** , National Conference ”Atmosphere and Hydrosphere. Interdisciplinary knowledge, manifestation, evolution, recovery, protection, importance”, Suceava Romania, March 28 – 29, 2014; AUTHOR

**The study of karst hydrology in Ghețat Plateau – Ocolale (Bihar Mountains, Romania) based on the analysis the isotopic composition ( $\delta^{18}\text{O}$  and  $\delta^2\text{H}$ ) of surface waters and from the underground**, National Conference ”Atmosphere and Hydrosphere. Interdisciplinary knowledge, manifestation, evolution, recovery, protection, importance”, Suceava Romania, March 28 – 29, 2014; COAUTHOR

**Evaluation of hydro-geomorphological resources of Moldova River. Case Study: the gravel downstream of Tupilati**, National Conference of Atmosphere and Hydrosphere - Knowledge interdisciplinary, event, development, exploitation, protection, importance, Suceava, Romania, March 27 - 28, 2014. COAUTHOR



**The role of geographical factors in determining the isotopic composition of precipitation in NW Romania**, International Conference "Air and water. Environmental components, Edition VI, Cluj Napoca, Romania, March 21-22, 2014; AUTHOR

**2013**

**Temporal variation of stable isotopes of hydrogen and oxygen in water precipitation in the north-western Romania**, Geography Conference Geoconcept Edition II, Suceava, Romania, November 22-24, 2013; AUTHOR

**Determining the source of the mineral waters in the Eastern Carpathians based on stable isotope analysis O<sup>18</sup> and H<sup>2</sup>**, Geography Conference Geoconcept Edition II, Suceava, Romania, November 22-24, 2013; COAUTHOR

**Stable isotope composition of precipitation in NW Romania**, 32<sup>nd</sup> Geographical Seminar "Dimitrie Cantemir", Iași, Romania, October 18 -20, 2013, COAUTHOR

**Mapping the stable isotopes distribution in precipitation in NW Romania**", AIG10 Applied Isotope Geochemistry Conference, Budapest, Hungary, September, 22-27, 2013, AUTHOR

**Tracing the source of mineral waters in the Eastern Carpathians, Romania, using the stable isotopes of oxygen and hydrogen in water**, AIG10 Applied Isotope Geochemistry Conference, Budapest, Hungary, September, 22-27, 2013; COAUTHOR

**GIS techniques used to analyze the evolution of the land usage of the river basin Solonet for the time period 1856 – 2011**, International Symposium "Environmental Quality and Land Use", 9<sup>th</sup> Edition, Suceava, Romania, May 31-June 1, 2013; COAUTHOR

**One hour of geography, a life lesson. From theory to practice**", National Conference "Didactic and pedagogical dimensions in Education, Suceava, Romania, May 24, 2013; AUTHOR

**Large-scale atmospheric circulation influence on rainfall variability in Romania in the last 30 years**, Geography Conference GEOCONCEPT, Edition I, Suceava, Romania, May 17-19, 2013; AUTHOR

**Influence of large-scale atmospheric circulation on precipitation departures in 2012, Romania vs United Kingdom**, National Students Symposium Geographical, 20<sup>th</sup> Edition, Bucharest, Romania, March 29-31, 2013; AUTHOR

**Deviations precipitation in 2012 in Romania vs. United Kingdom**, Action "World Water Day" at the Association of Applied Geography GEOCONCEPT, Suceava, Romania, March 22, 2013; AUTHOR

**2012**

International Karstological School 20<sup>th</sup> „Classical Karst: Karst forms and processes” – Postojna, Slovenia, June 18-23, 2012; PARTICIPANT

*Climate change vs. human perception (Restoring water regime in Romania in the last 1000 years after documenting data provided by N. Topor)*, International Student Symposium "Invitation to Geography in Bucovina, 4<sup>th</sup> Edition, Suceava, Romania, May 25-27, 2012; COAUTHOR

**Climate Cave Focul Vii and the correlation between the temperature outside and inside it**, International Student Symposium "Invitation to Geography in Bucovina", 4<sup>th</sup> Edition, Suceava, Romania, May 25-27, 2012; COAUTHOR

**Water - Past, Present and Future**, Action "World Water Day,, at the Association of Applied Geography GEOCONCEPT, Suceava, Romania, March 22, 2012; AUTHOR

**2011**

**Observations on the spatial variability of the Prut river discharges**, International Symposium "Environmental quality and land use," 8<sup>th</sup> Edition, Suceava, Romania, May 6-7, 2011; COAUTHOR

**2010**

**Study limnology of Lake Bâlc**", International Student Symposium "Invitation to Geography in

Bucovina", Third Edition, Suceava, Romania, May 28-30, 2010; AUTHOR

**Crystal water**, Action "World Water Day" Edition II, Suceava, Romania, May 23, 2010, AUTHOR

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## Qualifications

Computerskills

Language skills

Romanian **Mother tongue**

English **Fluent**

French **Basic knowledge**

Dutch **Basic knowledge**

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Other

Viorica Nagavciuc

Suceava, Romania

