

PERSONAL INFORMATION

IONEL POPA



PREFERRED JOB

Forestry

WORK EXPERIENCE

11/06/2015–Present

Director of Research-Development and Experimentation-Production Station

National Research and Development Institute for Forestry Marin Drăcea - Research Station
Campulung Moldovenesc
Calea Bucovinei 73bis, Campulung Moldovenesc (Romania)

Forestry and research management

[Business or sector](#) Forestry Research

11/06/2015–Present

Senior Researcher

National Research and Development Institute for Forestry Marin Drăcea - Research Station
Campulung Moldovenesc
Calea Bucovinei 73Bis, Campulung Moldovenesc (Romania)

Research project coordination

[Business or sector](#) Forestry research

01/10/2011–Present

Associate professor

Stefan cel Mare University of Suceava, Suceava (Romania)

Master courses

[Business or sector](#) University

01/10/2009–Present

Phd supervisor

Stefan cel Mare University of Suceava
Universității 1, Suceava (Romania)

Phd students guidance

[Business or sector](#) University

01/05/2007–10/06/2015

Senior researcher

Forest Research and Management Institute - Research Station Campulung Moldovenesc
Calea Bucovinei 73bis, Ro725100 Cămpulung Moldovenesc (Romania)

Research projects coordination

[Business or sector](#) Forestry Research

Calea Bucovinei 73bis, Ro725100 Câmpulung Moldovenesc (Romania)

Coordination of the research, production and planning activities of Research Station Campulung Moldovenesc

Business or sector Forestry management

01/11/2005–01/05/2007

Researcher degree II

Forest Research and Management Institute - Research Station Campulung Moldovenesc
Calea Bucovinei 73bis, Ro725100 Câmpulung Moldovenesc (Romania)

Research projects coordination

Business or sector Forestry Research

01/10/2002–01/11/2005

Researcher degree III

Forest Research and Management Institute - Research Station Campulung Moldovenesc
Calea Bucovinei 73bis, RO725100 Câmpulung Moldovenesc (Romania)

Research project coordination

Business or sector Forestry Research

01/06/2001–01/10/2002

Young researcher

Forest Research and Management Institute - Research Station Campulung Moldovenesc
Calea Bucovinei 73bis, Ro725100 Câmpulung Moldovenesc (Romania)

Research project coordination

Business or sector Forestry research

01/09/1998–01/06/2001

forestry engineer in research

Forest Research and Management Institute - Research Station Campulung Moldovenesc
Calea Bucovinei 73bis, Ro725100 Câmpulung Moldovenesc (Romania)

Collaboration to research projects

Business or sector Forestry research

EDUCATION AND TRAINING

01/11/1998–10/01/2001

Phd diploma

Stefan cel Mare Univeristy of Suceava
13, Universitatii, Suceava (Romania)

Forestry research

Phd studies

01/10/1993–01/07/1998

Bachelor's degree - forestry engineer

Stefan cel Mare University of Suceava
Universității 1, Suceava (Romania)

Forestry, technical studies, statistics

University

01/10/1998–01/07/2003

Bachelor's degree - economy

Stefan cel Mare University of Suceava
13 Universitatii, Suceava (Romania)

Economy

University

15/09/1989–01/07/1993

High School Diploma

High School

Forestry High School
Ro725100 Câmpulung Moldovenesc (Romania)
Forestry

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	B2	B2	B2
French	B2	B2	B1	B1	A2

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

Communication skills good communication skill

Organisational / managerial skills Experiences in management of research team

Digital competence GIS, SAS, Visual basic programming, R, SAS

Driving licence B

ADDITIONAL INFORMATION

Member of professional associations:

Association for Tree-Ring Research

Associate member of Academy for Agricultural and Forestry Science since 2006

Awards:

Award of Alexandru Tisescu Foundation in 2004 for the book - Fundamente metodologice și aplicații de dendrocronologie

Award Constantin Chiriță of Academy for Agricultural and Forestry Science in 2007 for the book Managementul riscului la doborâturi produse de vânt

Specializations and fellowships:

- TEMPUS fellowship to ENGREF - France, 11/1995-07/1996;

- Research project management, ASE 2005

- Land use, land-use change and forest history - Impacts on the environment, International NFZ.forestnet Summer School, France, 4-11 September 2005

- Mountain ecology and alpine ecosystem management", NFZ.Forestnet, Elveția, 10-16 September 2006

- Stage on wood anatomy to Padova University, Italy, 21-30 may 2006

- Stage on wood anatomy– WSL, Swiss – December 2007

Books selection

1. **Popa, I., Sidor, C., 2010, Rețeaua națională de serii dendrocronologice – RODENDRONET – 1. Conifere**, Editura Silvică, 369 pg.

2. **Popa, I., 2007, Managementul riscului la doborâturi produse de vânt**, Editura Tehnică Silvică, 233

pg. (premiul Constantin Chiriță al Academiei de științe agricole și silvice pe anul 2007)

3. **Popa, I.**, 2004, *Fundamente metodologice și aplicații de dendrocronologie*, Editura Tehnică Silvică, 200 pg.

4. Barbu, I., **Popa, I.**, 2004, *Monitoringul secetei în pădurile din România*, Editura Tehnică Silvică, 128 pg.

List of articles selection

1. Bosela, M., **Popa, I.**, Gömöry, D., Longauer, R., Tobin, B., Kyncl, J., Nechita, C., Petras, R., Sidor, C., Sebeň, V., Buntgen, U., 2016. Effects of postglacial phylogeny and genetic diversity on the growth variability and climate sensitivity of European silver fir. *Journal of Ecology*. doi: 10.1111/1365-2745.1256.

2. Cook, E. R., Seager, R., Kushnir, Y., Briffa, K. R., Büntgen, U., Frank, D., **Popa, I.**, ... & Baillie, M., 2015, Old World megadroughts and pluvials during the Common Era. *Science advances*, 1(10), e1500561.

3. Árvai, M., **Popa, I.**, Mîndrescu, M., Nagy, B., Kern, Z., 2016, Dendrochronology and radiocarbon dating of subfossil conifer logs from a peat bog, Maramureș Mts, Romania. *Quaternary International*. doi:10.1016/j.quaint.2015.11.066.

4. Gazol, A., Camarero, J. J., Gutiérrez, E., **Popa, I.**, Andreu-Hayles, L., Motta, R., Carrer, M. (2015). Distinct effects of climate warming on populations of silver fir (*Abies alba*) across Europe. *Journal of Biogeography*, 42(6): 1150-1162.

5. Badea O., Dumitru, I., Cojocia C., **Popa I.**, 2015. The radial growth-competition relationship in *Picea abies* stands affected by windfall, *Dendrobiology*, 73: 175-181.

6. Rădoane, M., Nechita, C., Chiriloaei, F., Rădoane, N., **Popa, I.**, Roibu, C., Robu, D.. Late Holocene fluvial activity and correlations with dendrochronology of subfossil trunks: case studies of northeastern Romania. 239:142-159

7. Sidor, C., **Popa, I.**, Vlad, R., Cherubini, P., 2015, Different tree-ring responses of Norway spruce to air temperature across an altitudinal gradient in the Eastern Carpathians (Romania). *Trees*, 29:985–997.

8. Semeniuc, A., **Popa, I.**, Timofte A., Gurean D., 2014, Xylem phenology of *Fagus sylvatica* in Rarau Mountains (Eastern Carpathians, Romania), *Notulae Botanicae Horti Agobotanici*, 42:275-279.

9. **Popa, I.**, Bouriaud, O., 2014, Reconstruction of summer temperatures in Eastern Carpathian Mountains (Rodna Mts, Romania) back to AD 1460 from tree-rings, *International Journal of climatology* 34:871-880.

10. **Popa, I.**, Leca, S., Crăciunescu, A., Sidor, C., Badea, O., 2013. *Dendroclimatic Response Variability of Quercus species in the Romanian Intensive Forest Monitoring Network*. *Not Bot Horti Agrobo*, 2013, 41(1):1-7

11. Anfodillo, T., Carrer, M., Simini, F., **Popa, I.**, Banavar, J., Maritan, A., 2013, *An allometry-based approach for understanding forest structure, predicting tree-size distribution and assessing the degree of disturbance*, *Proc. R. Soc. B*, 280: 20122375

12. Levanič, T., **Popa, I.**, Poljanšek, S., Nechita, C., 2013, A 323-year long reconstruction of drought for SW Romania based on black pine (*Pinus nigra*) tree-ring widths, *Int J Biometeorol*, 57(5), 703-714.

13. Chiriloaei, F., Rădoane, M., Perșoiu, I., **Popa, I.**, 2012, *Late holocene history of the Moldova River Valley, Romania.*, *Catena* 93:64-77

14. Nechita C., **Popa, I.**, 2012, *The climate – radial growth relationship for oak (Quercus robur) in the Western Plain*, *Carpathian Journal of Earth and Environmental Sciences*. 7(3)137-144

15. Lamedica, S., Lingua, E., **Popa, I.**, Motta, R., Carrer, M., 2011, *Spatial structure in four Norway spruce stands with different management history in the Alps and Carpathians*. *Silva Fennica* 45(5):865-873

16. **Popa, I.**, Kern Z., 2009, *Millennial summer temperature reconstruction inferred from tree ring records for Calimani Mts. (Eastern Carpathians, Romania)*, *Climate dynamics* 32: 1107-1117.

17. Bouriaud, O., **Popa I.**, 2009, *Comparative dendroclimatic study of Scots pine (Pinus sylvestris L.) Norway spruce (Picea abies Karst.) and Silver fir (Abies alba Mill.) in a Vrancea Mountains, Eastern Carpathian*. *Trees* 23:95-106.

18. Kern, Z., **Popa, I.**, Varga, Z., Széles, É., 2009, *Degraded temperature sensitivity of a stone pine*

chronology explained by dendrochemical evidences, Dendrochronologia 27:121-128 .

Research grants as project
coordinator selection

1. **Popa, I.**, *Monitorizarea intensivă a stării principalelor ecosisteme forestiere și evaluarea stării de sănătate a pădurilor din România în rețeaua pan-europeană de sondaje (16x16km) (Intensive monitoring of main forest ecosystems status and health evaluation of forests in Romania in pan-european network of plots (16x16km) – Core Research Program – PN 09460 116 - 2015.*
2. **Popa I., Neagu S.**, *Monitorizarea stării ecosistemelor forestiere din rețelele pan-europene (16x16 km), intensivă (nivel II) și auxologică (Forest ecosystem status monitoring in pan-european network (16x16 km), intensive (level II) and growth – Core Research Program - PN 09460 116 - 2014-2015.*
3. **Popa, I.**, *Reconstituirea prin metode dendroecologice a dinamicii perturbărilor în pădurile naturale din Carpații Orientali (Reconstruction of disturbance dynamics in old growth forests from Eastern Carpathians by dendroecological methods)*, PNCDI II – TE, 2011-2014.
4. **Popa, I., Levanic, T.**, *Climatic sensitivity of Pinus nigra Arnold in Slovenia and Romania under actual climatic changes - challenges for sustainable forest management*, Bilateral Cooperation Projects România-Slovenia, 2010-2011.
5. **Popa, I.**, *Monitoringul integrat al proceselor auxologice din Carpații Orientali în condițiile schimbărilor climatice (Integrate monitoring of growth processes in Eastern Carpathians under climate change)*, Core Research Program PN 09460 108 – 2009-2011.
6. **Popa, I., Yurukov, S.**, *Climate sensitivity of european beech (Fagus sylvatica) and Norway spruce (Picea abies Karst) at their south-eastern distribution limit under global changes*. Bilateral Cooperation Projects România – Bulgaria, 2008-2009.
7. **Popa, I.**, *Dinamica inter- și intra-anuală a proceselor auxologice în ecosistemele forestiere de la limita superioară a vegetației (Inter and intra annual dynamics of growth process in forest ecosystems from timberline) – PNCDI II – IDEI – 2007- 2010.*
8. **Popa, I., Nagy, B.**, *Investigation of spatial and temporal variability of environmental change of the Carpathian region during the past five century*, Bilateral Cooperation Projects România – Ungaria, 2006-2007.
9. **Popa, I.**, *Implementarea rețelei naționale de serii dendrocronologice pentru speciile de rășinoase – RODENDRONET (Implementation of national dendrochronological network for coniferous species – RODENDRONET) – Sectorial Research Program MADR – 2006-2010.*
10. **Popa, I.**, *Reconstituirea paleoclimatului și a modificărilor de mediu din ultimele 5 secole din Parcul național Călimani (Reconstruction of paleoclimate and environmental modifications in last 5 centuries in National Park Calimani) - CEEX. 2005-2007.*
11. **Popa, I.**, *Modele auxologice în ecosisteme artificiale de molid în raport cu factorii de mediu și lucrările silvotehnice (Growth models in artificial spruce ecosystems in relation with environmental factors and silvicultural works) - CEEX. 2006-2008.*
12. **Popa, I.**, *Metode moderne de evaluare, analiză și prognoză a riscului ecologic datorat doborâturilor produse de vânt cu efecte catastrofale (Modern methods to evaluate, analysis ad forecasts ecological risk induce by catactrophic windthrow)- CEEX - 2006-2008.*
13. **Popa, I.**, *Variația răspunsului dendroclimatologic al fagului (Fagus sylvatica) aflat la limita estică a arealului (Spatial variability of dendroclimatological response of beech (Fagus sylvatica) at eastern distribution limits) - CEEX - 2006-2008.*
14. **Popa, I.**, *Reconstituirea climatului din ultimele trei secole la nivelul lanțului carpatic prin tehnici de dendroclimatologie (Reconstruction of climate in last 3 centuries on Carpathians by dendroclimatological techniques) - MENER. 2004-2006.*
15. **Popa, I.**, *Cercetări dendroecologice și dendroclimatologice în Parcul Național Munții Rodnei (Dendroecological and dendroclimatological research in National Park Rodna Mountains) - CNCSIS. 2005-2006.*
16. **Popa, I.**, *Sisteme moderne de cartare a zonelor de risc la doborâturi produse de vânt (Modern mapping system of windthrow risk) National Forest Office – RNP Romsilva 2002-2004.*
17. **Popa, I.**, *Variabilitatea spațială a indicilor de competiție în pădurea naturală (Spatial variability of competition index in natural forests) - CNCSIS, 2003-2004.*
18. **Popa, I.**, *Cercetări dendroclimatologice la molid și brad (Dendroclimatological research at spruce*

and silver fir) Academia Română - 2003-2004.

19. **Popa, I.**, *Elaborarea de serii dendrocronologice pentru molid, brad și gorun cu aplicabilitate în dendroclimatologie și dendroecologie (Building of dendrochronological series for spruce, silver fir and oak with applicability in dendroclimatology and dendroecology)* ANSTI Horizont 2000 Research Program - 2000 – 2002.

20. **Popa, I.**, *Modelarea structurii spațiale în pădurea naturală (Spatial structure modelling of natural forests)* CNCSIS - 2001-2002.