

## PERSONAL INFORMATION



Nickolay Angelov Tsvetanov

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Sex: male | Date of birth | Nationality Bulgarian

## WORK EXPERIENCE

- 2021 - Present Assistant Professor, Dendrology Department, Faculty of Forestry, University of Forestry, Sofia
- 2016 - 2021 Organizer learning activity, Dendrology Department, Faculty of Forestry, University of Forestry, Sofia.
- 2011 – 2012 Technical Assistant, Dendrology Department, Faculty of Forestry, University of Forestry, Sofia.

## EDUCATION AND TRAINING

- 2013 - 2017 PhD student (Forestry and Dendrology), University of Forestry, Sofia, Bulgaria  
PhD topic: “Natural regeneration dynamics in Norway spruce forest following natural disturbances in “Parangalitsa” Reserve in Bulgaria”
- Higher education  
2010 - 2012 MSc in Forestry, University of Forestry, Sofia, Bulgaria  
Master thesis: “Dendroecological analysis of the natural regeneration after windthrows in “Parangalitsa” Reserve”
- 2006 - 2010 BSc In Forestry, University of Forestry, Sofia, Bulgaria  
Bachelor thesis: “Trees reaction after windthrow recorded in Norway spruce tree rings in the forest “Parangalitsa””
- Secondary education  
2002 – 2006 Forestry School, Berkovitsa, Bulgaria

## Courses and trainings

02.2016 – 03.2016

Internship in Swiss Federal Institute for Forest, Snow and Landscape Research WSL, Davos

09.2014 – 12.2014

“Statistics with R”, organized by University of Forestry, Sofia, Bulgaria

02.2009 – 03.2009

Internship in Laboratory of Forest growth, Institute of Forest Sciences, Chair of Forest Growth and Dendroecology, University of Freiburg

## PERSONAL SKILLS

### Mother tongue(s)

Bulgarian

### Other language(s)

#### UNDERSTANDING

#### SPEAKING

#### WRITING

#### Listening

#### Reading

#### Spoken interaction

#### Spoken production

English

B1

B1

B1

B1

B1

### Communication skills

- Good communication skills acquired during my work as an participant of the research and educational projects

### Organizational / managerial skills

- proficiency in MS Office;
- proficiency in CS 6 (Adobe.Master.Collection);
- proficiency in CAD/CAM, CorelDraw,
- proficiency in SPSS; OriginPro; R
- proficiency in EndNote; ProgRes Capture; Woodsort, Woodsell, Woodscan, Coorecorder, CDendro

### Driving licence

- Category B + M

## ADDITIONAL INFORMATION

### Scientific activities

- “Subalpine forest development in Bulgaria under climate change” – Project funded by the Swiss National Science Foundation. Project leader: Dr. Peter Bebi (SLF) - a member of the working team;
- *Natural Dynamics in Subalpine Avalanche Protection Forests*. Project funded by the “Velux” Foundation, Switzerland - a member of the working team;
- „Natural disturbances and dynamics in pristine Norway spruce (*Picea abies* Karst) forests” - project funded by the National Science Fund of Bulgaria - a member of the working team.
- “Development of ecosystem-based information system for sensitive mountain areas in Bulgaria” – project founded from NSF-MES. Project leader Dr. M. Zhiyanski – a member of the working team

### Awards

- Special award for Graduate student with highest GPA in Forestry Specialty from the University of Forestry in Sofia (Master degree);
- Award fellowship for student with best scientific work in Forestry Specialty from the Rector of the University of Forestry in Sofia;

- Award fellowship for student with highest grades in Forestry specialty from EVRIKA Foundation, Sofia
- Special award for Graduate student with highest GPA in Forestry Specialty from the University of Forestry in Sofia (Bachelor degree);
- Award fellowship for student with best scientific work in Forestry Specialty from the Rector of the University of Forestry in Sofia;
- Award fellowship for student with best-science in Forestry Specialty from the Dean of the Faculty of Forestry, University of Forestry, Sofia;
- Award for graduation with excellent GPA from the Forestry School in Berkovitsa;
- Participant in numerous conferences in Bulgaria (with rewards) and foreign countries.

PhD thesis      Natural regeneration following windthrows in Norway spruce forests in Parangalitsa reserve, Bulgaria.

#### Selected publications

- **Tsvetanov, N.**, Nikolova, N. and Panayotov, M., 2011. Tree ring reactions after windthrow in the pristine *Picea abies* forest Parangalitsa. In: Maaten-Theunissen M, Spiecker H, Gärtner H, Helle G, Heinrich I (Eds.) (2011): TRACE - Tree Rings in Archaeology, Climatology and Ecology, Vol. 9. GFZ Potsdam, Scientific Technical Report STR 11/07, Potsdam, p. 89 - 96. ISSN: 1610-0956
- **Tsvetanov, N.**, Panayotov, M., 2013. Age structure and historical development of forests in "Bistrishko branishte" Biosphere reserve in Vitosha mountain (Bulgaria). *Ecologia Balkanica*, 5 (1): 129-136.
- Dountchev, A., **Tsvetanov, N.**, Zhelev, P., Panayotov, M., 2014. Challenges for the Conservation of the Norway spruce forests in Vitosha Nature Park after large-scale natural disturbances. *Ecologia Balkanica*, 5: 61-69.
- **Tsvetanov, N.**, Panayotov, M., Yurukov, S., 2015. Age estimation of Norway spruce saplings: analysis of the cambial age at various heights. In: Hevia, A., Sánchez-Salguero, R., Linares, J. C., Olano, J. M., Camarero, J. J., Gutiérrez, E., Helle, G., Gärtner, H. (2016), TRACE - Tree Rings in Archaeology, Climatology and Ecology, Volume 14 (pp.128-133). Scientific Technical Report 16/04, GFZ German Research Centre for Geosciences.
- Panayotov, M., Bebi, P., **Tsvetanov, N.**, Alexandrov, N., Laranjeiro, L., Kulakowski, D., 2015. The disturbance regime of Norway spruce forests in Bulgaria. *Canadian Journal of Forests Research*, 45(9): 1143-1153, DOI: <https://doi.org/10.1139/cjfr-2014-0505>
- Panayotov, M., Kulakowski, D., **Tsvetanov, N.**, Krumm, F., Barbeito, I., Bebi, P., 2016. Climate extremes during high competition contribute to mortality in unmanaged self-thinning Norway spruce stands in Bulgaria. *Forest Ecology and Management*, 369: 74-88, DOI: <https://doi.org/10.1016/j.foreco.2016.02.033>
- Dountchev, A., Panayotov, M., **Tsvetanov, N.**, Zhelev, P., Yurukov, S., 2016. Consequences of Non-intervention Management for the Development of Subalpine spruce forests in Bulgaria. In: B. Koulov and G. Zhelezov (Eds.) *Sustainable Mountain Regions: Challenges and perspectives in Southeastern Europe*, pp. 67-76. ISBN: 978-3-319-27905-3
- Panayotov, M., Gogushev, G., Tsavkov, E., Vasileva, P., **Tsvetanov, N.**, Kulakowski, D., Bebi, P., 2017. Abiotic disturbances in Bulgarian mountain coniferous forests – An overview. *Forest Ecology and Management*, 388: 13-28. DOI: <https://doi.org/10.1016/j.foreco.2016.10.034>
- **Tsvetanov, N.**, Dountchev, A., Panayotov, M., Zhelev, P., Bebi, P., Yurukov, S., 2018. Short- and long-term natural regeneration after windthrow disturbances in Norway spruce forests in Bulgaria. *IForest – Biogeosciences and Forestry*, 11 (5): 675-684, DOI: <https://doi.org/10.3832/for2754-011>
- Panayotov, M., **Tsvetanov, N.**, Tsavkov, E., Gogushev, G., Bebi, P., Zhelev, P., Yurukov, S., 2019. Effect of Climate Change on the High-Mountain Tree Species and Their Genetic Resources in Bulgaria. In: Šijačić-Nikolić M., Milovanović J., Nonić M. (eds) *Forests of Southeast Europe Under a Changing Climate. Advances in Global Change Research*, vol 65. Springer, Cham, pp. 429-447. DOI: [https://doi.org/10.1007/978-3-319-95267-3\\_35](https://doi.org/10.1007/978-3-319-95267-3_35) ISBN: 978-3-319-95267-3
- **Tsvetanov, N.**, Dolgova, E., Panayotov, M., 2020. First measurements of Blue intensity from *Pinus peuce* and *Pinus heldreichii* tree rings and potential for climate reconstructions. *Dendrochronologia* 60: 125681. DOI: <https://doi.org/10.1016/j.dendro.2020.125681>

- Zafirov, N., Panayotov, M., **Tsvetanov, N.**, Nikolchova, I., Trouet, V., 2020. Dendroclimatic analysis of *Pinus peuce* Griseb. at subalpine and treeline locations in Pirin Mountains, Bulgaria. *Dendrochronologia*, 61: 125703. Doi: <https://doi.org/10.1016/j.dendro.2020.125703>
- Zhelev, P., **Tsvetanov, N.**, Aneva, N., Ivanov, D., 2020. Diversity, genetic resources and conservation of *Tilia* species in Bulgaria. *Forestry Ideas*, 26 (2): 503-513.
- Garbov, Dr., Georgieva, Zdr., Levanič, T., Mcilpatrick, Orl., Panayotov, M., Tsavkov, E., **Tsvetanov, N.**, Velkovsky, K., 2021. Unravelling the Saint Nicholas Bay Shipwreck: A Multidisciplinary Approach. *Archaeologia Bulgarica*, XXV, 2: 81-104. SJR = 0.121, CiteScore 0.3
- Kostić, S., Wagner, W., Orlović, S., Levanič, T., Zlatanov, Tz., Goršić, E., Kesić, L., Matović, Br., **Tsvetanov, N.**, Stojanović, D., 2021. Different tree-ring width sensitivity to satellite-based soil moisture from dryer, moderate and wetter pedunculate oak (*Quercus robur* L.) stands, across southeastern distribution margin. *Science of the Total Environment*, 800, 149536. DOI: <https://doi.org/10.1016/j.scitotenv.2021.149536>
- Panayotov, M., Tsvetanov, N., Gogushev, G., Tsavkov, E., Zlatanov, T., Anev, S., Ivanova, A., Nedelin, T., Zafirov, N., Aleksandrov, N., Dountchev, A., Vasileva, P., Shishkova, V., Stoyanov, B., Sotirova, N., Vatov, V., Bebi, P., Yurukov, S., 2016. Mountain coniferous forests in Bulgaria – structure and natural dynamics. University of Forestry, 332 p., ISBN: 978-954-332-146-9