

CURRICULUM VITAE

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6. Date of birth: 11.04.1978.
7. Nationality: Serbian
8. Civil status: Married
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10. Education

Date (from - to)	Institution	Degree(s) or Diploma(s) obtained
1996 - 2003	University of Belgrade, Faculty of Forestry,	Graduated engineer of forestry,
2008 - 2011	Faculty of Forestry University of Belgrade	Master of Sciences of Forestry,
2011 - 2019	Faculty of Forestry, University of Belgrade	PhD of Forestry,

11. Language skills (on a scale of 1 to 5, 5 being the highest)

Language	Reading	Speaking	Writing
Serbian	5	5	5
English	5	5	4

12. **Membership of professional bodies:** Society of forestry engineers and technicians of Serbia

13. Other skills: (e.g. Computer literacy, etc.)

- GIS programs: (Arc GIS ver. 9 – 10.5, Quantum GIS, Arc Pad 10)
- Aero-Fotogrammetry stations: (Delta DPS, PhotoSOFT 1.1)
- Microsoft Office: (MS Excel, MS Word, MS Power point, Outlook express)
- Statistical software: (SPSS, STATGRAPHICS)
- Software for FMP: (Osнова 6 Serbia, Osнова 6 Montenegro)
- Software for NFI: (NFI Serbia, NFI Montenegro)

14. **Present position:** Teaching Assistant,

15. **Years within the firm;** 10 years

16. **Key qualifications:** Teaching assistant at the Faculty of Forestry, University of Belgrade. More than 10 years experience in topics related to National Forest inventory in Serbia and Montenegro. Field of expertise is related to the scientific field such as Dendrometry, Forest inventory (FMP and NFI) and applied statistics, Photogrammetry and GIS in Forest and practical implementation in Forest inventory. Author of 20 scientific publications. Coordinator on first National Forest Inventory of Serbia project accomplished in period between 2004-2009 (supported by Norwegian Forestry group). In Montenegro (FODEMO project, 2009-2012) National Forest Inventory and Biomass Adviser/Coordinator, financed by Grand Duchy of Luxemburg. International Forest Inventory Expert (NFI data aggregation) by the Food and Agriculture organization Forestry department – Wood energy (FAO) for the implementation of WISDOM methodology in Montenegro - Wood fuels Integrated Supply/Demand Overview Mapping (WISDOM) GCP/MNE/001/LUX.

17. Specific country experience

Country	Date from - Date to
Serbia	2004 – 2009 and 2012 - 2018
Montenegro	2009 – 2012

18. Professional experience (employment)

<i>Date (from – to)</i> <i>Location, Company, Position</i>	<i>Description</i>
2012 - ongoing University of Belgrade, Faculty of Forestry,	<p>Work in the form of conducting lectures, practical exercise and research in topics of Dendrommetry, Forest Inventory, Leading of project.</p> <ul style="list-style-type: none"> • Lectures of different sampling approach in FMP stand inventory and National Forest inventory, determination of quantitative and qualitative information for collection data, measurement, data processing, testing of forest site and stand productivities, statistical analysis of data • Practical work with measurement instruments which are used in the Forest Inventory and Dendrommetry, • Lectures for determination of volume, increment and age calculations of trees and stands, • Lectures regarding calculations of number of trees based on sampling measurement, determination of volume, age and increment of the stand and forest complex, data analysis of the obtained data in the stand-wise inventory, preparations of forest management plans. • Practical exercise on Aero – Photogrammetry station, interpretation of information regarding single trees and stands, delineations of stands using aero images, statistical test of confidentiality, collecting of inventory data from aero images and comparative analysis with terrestrial inventory.

<i>Date (from – to)</i> <i>Location, Company, Position</i>	<i>Description</i>
National Forest Inventory Specialist, Contribution of Sustainable Forest Management to a Low Emission and Resilient Development – DoF-GEF - FAO – National Forest Inventory Specialist	<ol style="list-style-type: none"> 1. Coordinate implementation by NFI experts and survey NFI field teams, as well as other project teams as appropriate. 2. Integration of GIS datasets (data aggregation from available existing spatial data beyond the forestry sector) to be ready for use in GIS environment related to NFI2, 3. Continue conducting control of NFI work on sub-sample plots in the field 4. Continue to monitor the field work performance, both quality and timing, 5. Contribute to the technical implementation of the NFI by: <ul style="list-style-type: none"> - supporting to refine the protocols for the calculation (strata definition, tree heights, volume, biomass, etc), included in the project document “Analysis methodology for Serbia NFI 2” and contributing FAO NFI TEAM in providing information for Statistical error implementation. 6. Support tuning of NFI software in collaboration with FAO NFI team, the Coordinator of Component 1 and provider of NFI software by: <ul style="list-style-type: none"> - checking of NFI analysis module for target attributes and results and error estimates via external calculations (in Excel and r/ SPSS) including examples how to implement single analysis algorithms, - conducting result comparison between NFI1 and NFI2 for the whole Serbia 7. Support and contribute in communication between the NPC, FAO NFI team and National NFI Coordinator of Component 1, provider of the NFI software and Biodiversity team, 8. Contribute to the development of the final outline of the NFI2 report in collaboration with FAO NFI team, including the control protocol and reports from Forest institute. 9. Support drafting of final NFI2 report (including photointerpretation analysis results) 10. Contribute to the preliminary NFI report for Central Serbia and present final NFI report for two pilot regions

Date (from – to) Location, Company, Position	Description
2009 -2012 Podgorica, Montenegro, LUX- Development, FODEMO National Forest Inventory and Biomass Adviser/ Coordinator	<p>National Forest Inventory - Advisory tasks and Specific Technical tasks within the project:</p> <p>a. Support overall coordination of the NFI project module</p> <ul style="list-style-type: none"> • Work with project manager and the Ministry to coordinate the different components of the NFI Project, during NFI preparation, NFI implementation and analysis, reporting & publication of results. • Preparation of Methodology for NFI of Montenegro, defining the attributes for the collecting the data, related to forest resource of MNE- Co-Author of publication <p>b. Support long term NFI planning;</p> <ul style="list-style-type: none"> • Work with the national stakeholders to prepare a clear strategy for long-term continuation of the National Forest Inventory through a system of permanent sample plots within the Forest Management Planning inventory procedures. <p>c. Coordinate training on general NFI aspects;</p> <ul style="list-style-type: none"> • Coordinate & support training activities for all actors involved in the NFI Project • Work with national and international consultants on preparations of strategy for long term sustainability of NFI. <p>d. Support preparation of standard NFI statistical results and accompanying</p> <ul style="list-style-type: none"> • Statistical analysis of NFI data, support and preparation of standard statistical report for all stake holders, public and government of Montenegro <p>e. GIS Support for NFI project connection between Field numeric data and spatial data</p> <ul style="list-style-type: none"> • Complete GIS support for NFI, support of NFI project • All data necessary for remote sensing-based map production collected (DEM model, Satellite images, test data set ready for NFI development program • Compilations all Spatial data with field data and Attribute data necessary for analysis • Writing “The First National Forest Inventory of Montenegro” final report - • Co-author of publication.
2005 - 2009 Belgrade, Serbia, Faculty of Forestry, National Forest inventory coordinator	<ul style="list-style-type: none"> • Planning, training, and execution of technical aspects of inventory in 2005 - 2009; • Development of annual working plans; Development of training materials necessary for operations; • Organizations and conducting NFI field work training, (theory + practical lecture) of field teams; courses for GIS, GPS, PDA, support of field teams during the field work, • Preparation maps for orientation on the field, Analysis of Satellite images for purpose of NFI; Georeferencing and digitalization, preparations of GIS project, • Control of field teams and preparations of reports regarding the control, • Coordinate with Provincial and District Forestry Offices on technical and project issues; • Organization of meetings with local experts and international consultants • Participations on meetings on the project team meetings with international experts and support of consultants, • Preparation of draft reports for Ministry of Agriculture, Forestry and Water management
2004 Bor, Zaječar, Mačva and Kolubara District Faculty of Forestry Forestry engineer,	<ul style="list-style-type: none"> • Team leader of group of four people for data collection • Organization daily activities, • Gathering information at the field, • Measuring diameter and heights, • Describing stand and site conditions – attributive information, • Preparation daily report,

19. Other relevant information

Participations on the international projects (during employment) from 2012 – 2018

1. Contribution of Sustainable Forest Management to a Low Emission and Resilient Development – DoF-GEF -FAO ; - National Forest Inventory Specialist – Project expert,
2. **Horizon 2020: Distributed, integrated and harmonised forest information for bioeconomy outlooks:** Improvements in the methods of data collection, such as national forest inventories and monitoring systems, in order to produce more accurate, harmonised and timely information that can be fed into EU forest information systems consistent, up-to-date forest information to support the development of EU policies and international processes, methodologies to make innovative use of data collected using terrestrial, aerial and space based platforms.

- WP1-Multi-agent end-user requirements analysis,
 - WP2-Harmonizing growing stock, biomass and carbon estimation and forest state monitoring based on field and high-resolution remote sensing data,
 - WP3-Improving data collection and analysis for multipurpose inventory of forest resource,
 - WP4-Monitoring disturbances based on EC space-applications,
 - WP5-Model-based biomass supply analyses for bioeconomy); - Project **coordinator, Project expert**
3. **SC17 - Use of National Forest Inventories data to estimate biomass in the European Forest**, Provision of forest data and services in support European Forest Data Centre. The aim of SC17 was to develop and apply a methodology for the harmonized assessment of forest biomass at European level and to provide spatial information on biomass and other forest parameters according to the INSPIRE grid and to NUTS level units based on NFI data; - **Project coordinator, Project expert**
 4. **S2Biom - Delivery of sustainable supply of non-food biomass to support a "resource-efficient" Bioeconomy in Europe, Project expert**
 5. **WISDOM - Montenegro, Wood fuels Integrated Supply/Demand Overview Mapping (WISDOM) GCP/MNE/001/LUX - International Forest Inventory Expert**

20. Some relevant publications:

1. Damjan Pantić, Milan Medarević, **Dragan Borota**, (2016), Book **NATIONAL FOREST INVENTORIES - ASSESSMENT OF WOOD AVAILABILITY AND USE**, Chapter 39 The Serbian National Forest Inventory, Springer International Publishing, pp. 709 - 730, 978-3-319-44014-9, 10.1007/978-3-319-44015-6,
2. Damjan Pantić, **Borota Dragan**, (2015) **THE NATIONAL FOREST INVENTORY OF SERBIA: STATE AND POSSIBLE FURTHER DIRECTIONS OF DEVELOPMENT**, Glasnik Šumarskog fakulteta, Univerzitet u Beogradu Šumarski fakultet, 112, pp. 9 - 32, 0353-4537, 630*524.61(497.11), 10.2298/GSF1512009P.
3. Dees M., Anđelić M., Fetic A., Jokanović B., Tepavčević V., Borota **D.**, Vasiljević A., Axel Weinreich, Hahn N., Marković D., Terzić D., (2013): "**FIRST NATIONAL FOREST INVENTORY OF MONTENEGRO**", **FINAL REPORT**, Ministry of Agriculture and Rural devolvement of Montenegro, Lux-Development - FODEMO Project, Podgorica. ISBN 978-86-85799-15-0,
4. Pantic D., Stojkovic N., **Borota D.**, Tubić B., Marinković M. (2013): Possibilities of applying *sampling measurement in the inventory of structurally heterogeneous stands*, Agriculture & Forestry, Vol. 59. Issue 4: 65-79, 2013, Podgorica, UDC (UDK) 630*22(497.11)
5. Pantić D., Medarević M., **Borota D.**, Filipović Đ., Tubić B. (2013): *Application of GIS in creating information basis for management of forest ecosystems of Belgrade*, The 1st International Congress on Soil Science, XIII National Congress in Soil Science, Belgrade
6. Anđelić M., Dees M., Pantić D., **Borota D.**, Šljukić B., Čurović M, (2012): *Status of Forest resource of Montenegro*, Agriculture & Forestry, Vol. 57. (11) Issue 3: 39-52, 2012, Podgorica, Crna Gora, UDC (UDK) 630*56:31(497.16).
7. Pantić D., Medarević M, Tubić B., **Borota D.** (2012): *Options for using remote sensing and its reliability in structural and spatial determination of forest ecosystems*, (39-48), International Scientific Conference Forests in Future - Sustainable Use, Risks and Challenges, 4th-5th October 2012, Belgrade, Republic of Serbia; ISBN 978-86-80439-33-4,
8. Pantić D., Medarević M., **Borota D.**, Tubić B., Marinković M. (2012) (:): *Aero photointerpretation in forest stand wise inventory of Serbia*, volume LXIV, 1-16, broj 3-4, ISSN 0350-1752, UDK 630*524.6+630*585 (497.11)
9. Dees M., Hahn N., Anđelić M., Jokanović B., Kändler G., Gross CP., Koch B., Weinreich A., Marković D., Tepavčević V., Knežević R., **Borota D.**, Panev M., Kapa M., Vojnović M., Stijepović S. (2011): "**METHODOLOGY FOR NATIONAL FOREST INVENOTRY OF MONTENEGRO**", Ministry of Agriculture and Rural devolvement of Montenegro, Lux-Development - FODEMO Project, Podgorica. ISBN 978-86-85799-07-5,