

PERSONAL INFORMATION



Djordje Djatkov

- 📍 Trg Dositeja Obradovica 6, 21000 Novi Sad, Serbia
- ☎ +381 21 485 2430 📠 +381 63 319 763
- ✉ djordjedjatkov@uns.ac.rs
- 🌐 <https://www.izzs.uns.ac.rs/zaposleni/43-dr-dorde-datkov>
- 💬 Skype djordjedjatkov

Sex Male | Date of birth 30/07/1982 | Nationality Serbian

POSITION

Associate Professor

WORK EXPERIENCE

-
- 01.04.2019 – today **Associate Professor**
Faculty of Technical Sciences Novi Sad

 - Lecturer / Researcher

 - 01.04.2014 – 31.03.2019 **Assistant Professor**
Faculty of Technical Sciences Novi Sad

 - Lecturer / Researcher

 - 25.05.2011 – 31.03.2014 **Assistant**
Faculty of Technical Sciences Novi Sad

 - Lecturer / Researcher

 - 15.06.2010 – 24.05.2011 **Associate**
Faculty of Technical Sciences Novi Sad

 - Lecturer / Researcher

 - 01.01.2007 – 14.06.2010 **Associate**
Faculty of Technical Sciences Novi Sad

 - Researcher

EDUCATION AND TRAINING

-
- 01.06.2015 – 31.05.2016 **Post Doctoral Research Stay**
Hamburg University of Technology

 - Reserch stay as a Humboldt Foundation Fellow

01.01.2007 – 23.09.2013 **Doctoral Studies**
 Faculty of Technical Sciences Novi Sad
 ▪ Study program: Mechanical Engineering

01.01.2007 – 23.09.2013 **Master Studies**
 Faculty of Technical Sciences Novi Sad
 ▪ Study program: Energy and Process Engineering – Thermal Engineering

PERSONAL SKILLS

Mother tongue(s) Serbian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B2	C1
	–				
German	C1	C1	C1	B2	B2
	–				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

–

Driving licence Category B

ADDITIONAL INFORMATION

Memberships ▪ Serbian Biogas Association
 Citations ▪ 147

ANNEXES

- List of research projects;
- List of publications.

List of publications

1. Nesterovic A, **Djatkov Dj**, Viskovic M, Martinov M. 2021. Airborne emissions from agricultural biomass combustion in the City of Novi Sad. In Proc. *48th International Symposium on Agricultural Engineering: Actual Tasks on Agricultural Engineering*, Zagreb, Croatia, 2nd–4th March 2021, 473 – 482.
2. **Djatkov Dj**, Nesterovic A, Viskovic M, Martinov M, Kaltschmitt M. 2021. Profitability of corn cob utilization as a fuel in small residential heating appliances. *Thermal Science* 25(4A): 2471-2482. doi.org/10.2298/TSCI200508221D.
3. Gu J, Liu R, Cheng Y, Stanisavljevic N, Li L, **Djatkov Dj**, Peng X, Wang X. 2020. Anaerobic co-digestion of food waste and sewage sludge under mesophilic and thermophilic conditions: Focusing on synergistic effects on methane production. *Bioresource Technology* (301): 122765. doi.org/10.1016/j.biortech.2020.122765.
4. Zezelj B, Maksimovic R, Todorovic T, **Djatkov Dj**. 2020. Analysis of the Possibilities for Using Renewable Energy Sources in the Autonomous Province of Vojvodina. *Sustainability* (12): 5645. doi:10.3390/su12145645.
5. Martinov M, Scarlat N, **Djatkov Dj**, Dallemand J.F, Viskovic M, Zezelj B. 2020. Assessing sustainable biogas potentials - case study for Serbia. *Biomass Conversion and Biorefinery* 10(2): 367-381. doi.org/10.1007/s13399-019-00495-1.
6. Martinov M, **Djatkov Dj**, Bojic S, Viskovic M. 2020. Serbian Agriculture, Agricultural Engineering – Past and Future. *Agricultural mechanization in Asia, Africa, and Latin America* 51(4): 82-83.
7. Martinov M, **Djatkov Dj**, Viskovic M. 2019. Potentials of crops residues – A case study for the province Vojvodina. *Die Bodenkultur: Journal of Land Management, Food and Environment* 70(3): 181-188.
8. Viskovic M, **Djatkov Dj**, Martinov M. 2018. Corn stover collection prior to biogas production – Evaluation of greenhouse gas emissions. *Journal of Cleaner Production* 199: 383-390.
9. Martinov M, Schulze Lammers P, **Djatkov Dj**, Viskovic M. 2018. Study on Lignocellulosic Bioethanol Production in Serbia - Prospects and Constraints. In Proc. *ASABE 2018 Annual International Meeting*, Paper No.: 1800433. Detroit, Michigan, July 29th-August 1st, 2018.
10. **Djatkov Dj**, Martinov M, Kaltschmitt M. 2018. Influencing parameters on mechanical–physical properties of pellet fuel made from corn harvest residues. *Biomass and Bioenergy* 119: 418-428.
11. Bojic S., Martinov M, Brcanov D, **Djatkov Dj**, Gerorgijevic M. 2018. Location problem of lignocellulosic bioethanol plant - Case study of Serbia. *Journal of Cleaner Production*, 172: 971-979.
12. **Djatkov Dj**, Effenberger M, Martinov M. 2014. Method for assessing and improving the efficiency of agricultural biogas plants based on fuzzy logic and expert systems. *Applied Energy* 134: 163-175.
13. **Djatkov Dj**, Effenberger M, Lehner A, Martinov M, Tesic M, Gronauer A. 2012. New method for assessing the performance of agricultural biogas plants. *Renewable Energy* 40(1): 104-112.
14. Viskovic M, **Djatkov Dj**, Martinov M. 2017. Sustainability of biogas production and utilisation – case studies. In Proc. *45th International Symposium on Agricultural Engineering: Actual Tasks on Agricultural Engineering*, 407-415. Opatija, 21st-24th February.
15. Hijazi O, **Djatkov Dj**, Effenberger M. 2017. Calculating greenhouse gas mitigation from the utilization of biogas for combined heat-and-power production. In Proc. *45th International Symposium on Agricultural Engineering: Actual Tasks on Agricultural Engineering*, 427-435. Opatija, 21st-24th February.
16. Golub M, Martinov M, Bojic S, Viskovic M, **Djatkov Dj**, Dragutinovic G, Dallemand J.F. 2016. Investigation on Possibilities for Sustainable Provision of Corn Stover as an Energy Source: Case Study for Vojvodina. *Agricultural mechanization in Asia, Africa, and Latin America* 47(4): 8-15.
17. **Djatkov Dj**, Viskovic M, Rajcetic J, Golub M, Martinov M. 2015. Investigation on possibilities of biomethane production from corn stover in Vojvodina. In Proc. *43rd International Symposium Agricultural Engineering: Actual Tasks on Agricultural Engineering*, 635-644. Opatija, 24th-27th February.
18. **Djatkov Dj**, Viskovic M, Golub M, Bojic S, Martinov M. 2014. Potentials, opportunities and barriers for biogas production and utilization in Autonomous Province of Vojvodina. In Proc. *42nd International Symposium Agricultural Engineering: Actual Tasks on Agricultural Engineering*, 415-425. Opatija, 25th-28th February.
19. Bojic S, **Djatkov Dj**, Brcanov D, Georgijevic M, Martinov M. 2013. Location allocation of solid biomass power plants: Case study of Vojvodina. *Renewable and Sustainable Energy Reviews* 26: 769-775.

20. Golub M, Bojic S, **Djatkov Dj**, Mickovic G, Martinov M. 2012. Corn stover harvesting for renewable energy and residual soil effects. *Agricultural mechanization in Asia, Africa, and Latin America* 43(4): 72-79.
21. **Djatkov Dj**, Effenberger M, Martinov M. 2012. Development of a method for assessing the performance of agricultural biogas plants. In Proc. *40th International Symposium: Actual Tasks on Agricultural Engineering*, 557-567. Opatija, Hrvatska, 21st-24th February.
22. Martinov M, Veselinov V, Bojic S, Djatkov Dj. 2011. Investigation of maize cobs crushing – preparation for use as a fuel. *Thermal Science* 15(1): 235-243.
23. Effenberger M, **Djatkov Dj**. 2011. Monitoring and assessing the performance of agricultural biogas plants. In Proc. *39th International Symposium: Actual Tasks on Agricultural Engineering*, 201-210. Opatija, Hrvatska, 22nd-25th February.
24. Martinov M, **Djatkov Dj**, Tešić M, Effenberger M. 2009. Energy from biogas in Serbia – Case study Autonomous Province Vojvodina. In Proc. *Fourth conference: Energy efficiency and agricultural engineering*, 785-789. Rouse, Bulgaria, 1-3 October.
25. Tesic M, **Djatkov Dj**, Effenberger M, Martinov M. 2009. Potenziale der Biogasproduktion in der serbischen Provinz Wojwodina und Grundlagen der Wirtschaftlichen Begründetheit. In Proc. *International Scientific Conference: Biogas Science 2009 (science meets practice)*, 437-446. Erding, Deutschland, 2-4 Dezember.
26. **Djatkov Dj**, Effenberger M, Lehner A, Gronauer A. 2009. Assessing the overall efficiency of Bavarian pilot biogas plants. In Proc. *International Scientific Conference: Biogas Science 2009 (science meets practice)*, 707-716. Erding, Germany, 2-4 December.
27. Viskovic M, **Djatkov Dj**, Martinov M. 2016. Corn stover as a biogas substrate – sustainability in terms of GHG emission saving. In Proc. *Biogas Science 2016*, Szeged, Hungary, 21st -24th August, Book of Abstracts, 59.
28. Vasiljević Sanja, Karagić Đ, Martinov M, **Djatkov Dj**, Pržulj N, Denčić S, Živanov D, Milošević B. 2014. Potential of biogas production by using winter pea mixtures with triticale and oat. In Proc. *EUCARPIA Cereals Section – ITMI Joint Conference, Book of abstracts: Cereals for Food, Feed and Fuel – Challenge for Global Improvement*, 347. Wernigerode, June 29th-4th July.
29. Effenberger M, Buschmann A, Schober J, **Djatkov Dj**. 2014. Webbasierte Schwachstellenanalyse an landwirtschaftlichen Biogasanlagen. *Landtechnik* 69(2): 90-96.
30. **Djatkov Dj**, Effenberger M, Gronauer A. 2010. Vergleich der Prozesseffizienz in Biogasanlagen: Anwendung der Data Envelopment Analysis (DEA). *Landtechnik* 65(2): 132-135.
31. **Djatkov Dj**, Effenberger M. 2010. Data Envelopment Analysis for assessing the efficiency of biogas plants: capabilities and limitations. *Journal on Processing and Energy in Agriculture (former PTEP)* 14(3-4): 49-53.
32. Effenberger M, Lehner A, **Djatkov Dj**, Gronauer A. 2009. Performance figures of Bavarian agricultural biogas plants. *Contemporary Agricultural Engineering* 35(4): 219-227.
33. **Djatkov Dj**, Effenberger M, Lehner A, Gronauer A. 2009. Assessing the overall efficiency of biogas plants by means of Data Envelopment Analysis (DEA). *PTEP* 13(2): 139-142.
34. Effenberger M, **Djatkov Dj**, Ebertseder F, Kissel R. 2012. Bayerische Pilotbetriebe zur Biogasproduktion – Ergebnisse aus fünf Jahren Monitoring. In Proc. *Landestechnische Jahrestagung: Energiewende und Landwirtschaft*, 45-52. Bad Staffelstein, Deutschland.
35. **Djatkov Dj**, Effenberger M, Lehner A, Gronauer A. 2009. Untersuchungen zur Effizienz der Bayerischen Biogas-Pilotanlagen mittels Data Envelopment Analysis. In Proc. *18. Symposium: BIOENERGIE – Festbrennstoffe, Biokraftstoffe, Biogas*, 184-188. Kloster Banz- Bad Staffelstein, Deutschland, 19-20 November.

List of research projects

Period	Place	Finansijer / kontakt osoba	Opis
2020-2022	Serbia, Germany	European Climate Initiative ("EUKI") 2020 Bavarian State Research Center for Agriculture (LfL) Dr.-Ing. Mathias Effenberger mathias.effenberger@lfl.bayern.de	Project: Initiative on small biogas facilities for manure to attain GHG mitigation in agriculture (20_073_Biogas initiative)
2020-2021	Serbia, Western Balkan	European Commission Joint Research Center JRC.C.5- Air and Climate Unit, Ispra Elisabetta Vignati elisabetta.vignati@jrc.ec.europa.eu	Status of environment and climate in the Western Balkans
2018-2019	Serbia, Germany	Deutsche Bundesstiftung Umwelt (DBU) TU Hamburg, Prof. Dr. Martin Kaltschmitt Kaltschmitt@tuhh.de	Project: Mobilization of corn cobs as energy source and improvement of heat generators concerning environmental impacts
2018-2021	Serbia, Danube Region	EU Commission Danube Transnational Programme Gilda Nicolescu programe@adrmuntentia.ro	Project: Transnational Cluster Cooperation active on Agro-Food, based on Smart Specialization Approach in the Danube region (Danube S3 Cluster)
2017-2019	Serbia, Danube Region	EU Commission Danube Transnational Programme Daniela Chiran chiran@steinbeis-europa.de	Project: Transnational Cooperation to Transform Knowledge into Marketable Products and Services for the Danubian Sustainable Society of Tomorrow (Made in Danube)
2017	Serbia	European Commission Joint Research Center JRC.C.5- Air and Climate Unit, Ispra Julian Wilson julian.wilson@jrc.ec.europa.eu	Study on biomass combustion in residential sector in Serbia
2016	Novi Sad	CEI (Central European Initiative) Giovanni Caracciolo di Vietri cei@cei.int	Project: LCA – GHG emissions of RES production and utilization in Serbia (RESEnviro)
2015	Beograd	GIZ (Deutsche Gesellschaft für internationale Zusammenarbeit) Thomas Mitschke thomas.mitschke@giz.de	Project: Scientific report for the incorporation of dry agro-biomass straw residues and poultry manure as an alternative biogas substrate
2014	Novi Sad	Provincial secretary for higher education and research Prof. Dr. Zoran Milošević zoran.milosevic@vojvodina.gov.rs	Project: Development of small size biogas plants – contribution to sustainable development of rural areas in Vojvodina
2014	Beograd	GIZ (Deutsche Gesellschaft für internationale Zusammenarbeit) Olivera Antić olivera.antic@giz.de	Project: Potential of waste and residues from agriculture in five underdeveloped municipalities in Serbia and opportunity for its utilization (part of IMPACT project)
2012- 2013	Novi Sad	City of Novi Sad, Environmental protection unit janja.lukac@uprava.novisad.rs	Study: Biogas potentials in Novi Sad, prospects for production and application
2012	Novi Sad	Provincial Secretariat of Energy and Mineral Resources of Vojvodina Radoslav Striković Radoslav.Strikovic@vojvodina.gov.rs	Study: Development of instruction for potential investors in biogas production and utilization, development of software for economic evaluation of investment
2011- today	Belgrade	Ministry of Sciences of Republic of Serbia Dr. Branislav Repić brepic@vin.bg.ac.rs	Project: Development and improvement of technologies for energy efficient use of different sorts of agricultural and forest biomass on ecologically acceptable approach, with the possibility of cogeneration
2011- 2013	Novi Sad/ Szeged	IPA CBC Hungary-Serbia University of Szeged Prof. Dr. Kornel Kovacs kornel@brc.hu	Project: Establishing the cross-border development of biogas industry via joint determination of biogas potentials, education, research and innovation.
2008- 2013	Freising, Germany	Institute of Agricultural Engineering and Animal Husbandry Dr. Ing. Mathias Effenberger mathias.effenberger@lfl.bayern.de	Bilateral project Germany-Serbia: Benchmarksystem für Biogasanlagen. Reserach within PhD.
2010- 2011	Novi Sad	Provincial Secretariat of Energy and Mineral Resources of Vojvodina Radoslav Striković Radoslav.Strikovic@vojvodina.gov.rs	Study: Study of biogas potentials, production and utilization in the Province of Vojvodina.
2008- 2009	Freising, Germany	DAAD Institute of Agricultural Engineering and Animal Husbandry Dr. Ing. Mathias Effenberger mathias.effenberger@lfl.bayern.de	Research stay: DAAD scholarship holder. Topic of the assessment and improvement of efficiency of agricultural biogas plants. Reserach within PhD.
2009	Belgrade	Jefferson Institute Biljana Presnall bpresnall@jeffersoninst.org	Study: Solid, liquid and gaseous biomass potentials, practice and energy utilization in Serbia.