

Curriculum Vitae

Ana Puttonen (Djuricic), MSc.

Nationality: Serbian
Phone: +436607218350 (AUT)
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Occupation: PhD researcher at TU Wien, Vienna, Austria



EDUCATION

- 01.2014 – present** **Faculty of Mathematics and Geoinformation, Department of Geodesy and Geoinformation (GEO), Research Group Photogrammetry, TU WIEN**
- ◆ PhD Topic: Automating analysis and processing of high resolution point clouds for the investigation of a paleontological oyster reef
- 09.2010– 12.2012** **Faculty of Civil Engineering, University of Belgrade, Serbia**
- ◆ MSc Geodesy and Geoinformatics (grade: 10.00/10.00), Topic: Extraction of Forest Roads from Full-waveform Airborne Laser Scanning Data
- 09.2007 – 07.2010** **Faculty of Civil Engineering, University of Belgrade, Serbia**
- ◆ BSc Geodesy and Geoinformatics (grade: 9.35/10.00), Topic: Spatial analysis of the biotope of the city of Belgrade using the ArcGIS software

WORK EXPERIENCE

- 12.2013 – 02.2017** **Project assistant at Natural History Museum Vienna, Austria**
- ◆ **Austrian Science Fund (FWF)** - Project P 25883: Smart-Geology for the World's largest fossil oyster reef
- 01.2013 – 11.2013** **Visiting Scientist at the Karlsruhe Institute of Technology (KIT) / University of Karlsruhe (TH), Institute for Photogrammetry and Remote Sensing (Karlsruhe, Germany)**
- ◆ Research topic: Supporting UAVs in low visibility conditions by multiple-pulse laser scanning devices
- 07.2012 – 11.2012** **OeAD-Program at TU WIEN**
- ◆ Visiting scientist at the Institute of Photogrammetry and Remote Sensing (I.P.F.), Topic: Extraction of forest roads from airborne laser scanning data
- 01.2012 – 06.2012** **Internship - IAESTE Program** at the Federal Institute for Education, Science and Technology), Minas Gerais, Brazil
- ◆ Research topic: Monitoring temporal vegetation cover changes in the tropical south of Minas Gerais (Brazil) using Landsat satellite imagery and GIS
 - ◆ Research responsibilities:
 - ◆ Surveying (GPS and total station measurements)
 - ◆ Cartography (Open-Source-Software SPRING www.inpe.br)
 - ◆ Remote Sensing and Geographical Information Systems (GIS Databases)

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- 09.2011 – 12.2011** **Oracle Academy**
- ♦ SQL programming, Grade: 96/100
- 07.2011** **Universidad Carlos III de Madrid, Spain**
- ♦ Summer courses about Aircraft Systems Technology at AirBUS Company
- 10.2010** **Università degli Studi di Napoli Federico II, Italy**
- ♦ Autumn courses at Faculty of Civil Engineering
- 08.2010** **Instituto Superior Técnico, Portugal**
- ♦ Summer courses in Lisboa about Energy, Sustainability and Transports
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ADDITIONAL SKILLS

- Laboratory Practice:**
- ♦ **Handling analysis methods and data in the field of:**
 - ♦ Airborne Laser Scanning (ALS) - LiDAR
 - ♦ Terrestrial Laser Scanning (TLS)
 - ♦ Orthophoto creation with digital cameras (aerial photos)
 - ♦ **Design of experiments, method validation, process optimization**
 - ♦ **Journal Referee** for Photogrammetrie - Fernerkundung - Geoinformation (PFG) and ISPRS Journal of Photogrammetry and Remote Sensing
- Soft skills:**
- ♦ Initiative, initiative and problem-solving ability
 - ♦ Trained rhetoric and presentation techniques by attending relevant courses, teaching and presentations at numerous conferences
 - ♦ Pronounced logical and critical thinking
- Computer skills:** ♦ MS Office, ArcGIS, QGIS, AutoCAD, MATLAB, GeoMagic, MeshLab, CloudCompare
- Driver's license:** ♦ B-Category
- Languages:**
- | English, German | Spanish | Serbian |
|------------------------|----------------|----------------|
| fluent | intermediate | native |
- PRESS MEDIA:** ORF TV Show NEWTON, OKTO TV, Campus & City Radio 94.4, GEO and UNIVERSUM Magazine, APA, BE24, Der Standard, Wiener Zeitung, Tiroler Tageszeitung, etc.
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SCHOLARSHIPS AND AWARDS

- 11.2016** **"Best App Award"** at the 21st Conference on Cultural Heritage and New Technologies (CHNT 21 - www.chnt.at), organized by Stadtarchäologie Wien, Austria
- 07.2016** **"Best Paper Award"** for Young Authors, Technical Commission V, 23rd ISPRS Congress in Prague, International Society for Photogrammetry and Remote Sensing (ISPRS)

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- 06.2016** "Best Poster Award" at the 19th International Conference on Geographical Information Science, AGILE in Helsinki, Finland (AGILE - the Association of Geographic Information Laboratories in Europe)
- 01.2015** "Grant DOSITEJA" from Foundation for Young Talents of the Republic of Serbia
- 12.2012** "Best Master Thesis Award" at Faculty of Civil Engineering, University of Belgrade, Serbia
- 2007 – 2014** DAAD-Scholarship (Germany), OeAD Scholarship (Austria), ISPRS Foundation Grant at the ISPRS Commission V Symposium (Italy), Scholarship of the Foundation **Studentica** - Republic of Serbia.
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HOBBYS AND INTEREST

- ♦ Hiking, Swimming and Traveling
 - ♦ Argentine Tango
 - ♦ Karate (Brown belt, 松濤館 *Shōtōkan*)
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PUBLICATIONS

Ana Puttonen, Mathias Harzhauser, Eetu Puttonen, Oleg Mandic, Balázs Székely, Gábor Molnár and Norbert Pfeifer, 2018. Automatic determination of 3D orientations of fossilized oyster shells from a densely packed Miocene shell bed. *International Journal of Earth Sciences*, Springer, doi: 10.1007/s00531-018-1591-0.

Ana Djuricic, Mathias Harzhauser, Oleg Mandic, Norbert Pfeifer. Surface roughness analysis of fossil oyster shells using 3D laser scanning data. Conference: 2nd Virtual Geoscience Conference (VGC), at Bergen, Norway 21-23rd September 2016.

Djuricic A., Dorninger, P., Nothegger, C., Harzhauser, M., Székely, B., Rasztovits, S., Mandic, O., Molnár, G., Pfeifer, N., 2016. High-resolution 3D surface modeling of a fossil oyster reef. *Geosphere Journal*, v.12, 5.

Djuricic, A., Puttonen, E., Harzhauser, M., Mandic, O., Székely, B., and Pfeifer, N., 2016, 3D central line extraction of fossil oyster shells: *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, v. 3., p. 121-128.

Djuricic, A., Nothegger, C., Székely, B., Pfeifer, N., Harzhauser, M., Dorninger, P., & Mandic, O. GIS database for the World's largest fossil oyster reef. The 19th AGILE International Conference on Geographic Information Science, 14-17th June, Helsinki, Finland.

Harzhauser, M., **Djuricic, A.**, Mandic, O., Neubauer, T. A., Zuschin, M., & Pfeifer, N. (2016). Age structure, carbonate production and shell loss rate in an Early Miocene reef of the giant oyster *Crassostrea gryphoides*. *Biogeosciences*, 13(4), 1223-1235.

M. Harzhauser, **A. Djuricic**, O. Mandic, M. Zuschin, P. Dorninger, C. Nothegger, B. Székely, E. Puttonen, G. Molnar, N. Pfeifer. *Disentangling the history of complex multi-phased shell beds based on the analysis of 3D point cloud data*. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 437 (2015), 165 - 180.

M. Harzhauser, **A. Djuricic**, O. Mandic, M. Zuschin, P. Dorninger, C. Nothegger, B. Székely, G. Molnar, N. Pfeifer. *Limits in detecting tsunamites in the stratigraphic record –an example from the Early Miocene*. Talk: Strati 2015, Graz, Austria 19-23 July 2015, in Abstracts of 2nd International Congress on Stratigraphy (2015), <http://iewarchiv.uni-graz.at/berichte/files/Band21.pdf>

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G. Molnar, B. Székely, M. Harzhauser, **A. Djuricic**, O. Mandic, P. Dorninger, C. Nothegger, Ulrike Exner, N. Pfeifer. *Semi-automated fault system extraction and displacement analysis of an excavated oyster reef using high-resolution laser scanned data*. European Geosciences Union, General Assembly 2015, Vienna; in: Geophysical Research Abstracts Vol. 17, EGU2015-11417-1, 2015

M. Harzhauser, **A. Djuricic**, O. Mandic, P. Dorninger, C. Nothegger, B. Székely, G. Molnar, N. Pfeifer. *Disentangling the history of complex multi-phased shell beds based on the analysis of 3D point cloud data*. European Geosciences Union, General Assembly 2015, Vienna; in: Geophysical Research Abstracts Vol. 17, EGU2015-2101, 2015

Mathias Harzhauser, **Ana Djuricic**, Peter Dorninger, Clemens Nothegger, Oleg Mandic, Balázs Székely, Gábor Molnár, Norbert Pfeifer. *New approaches in automatized recognition of geological features in 3D point cloud data*. PANGEO Austria 2014, Graz, Austria; 09/2014.

Djuricic A, Weinmann M, Jutzi B (2013) *Potentials of Small, Lightweight, and Low Cost Multi-Echo Laser Scanners for Detecting Grape Berries*. International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences.

P. Dorninger, C. Nothegger, **A. Djuricic**, S. Rasztoivits, M. Harzhauser: *Smart-Geology for the World's largest fossil oyster reef*; Poster: European Geosciences Union, General Assembly 2014, Wien; 2014-04-27 - 2014-05-02; in: "Geophysical Research Abstracts", 16 (2014), 10504-1.BibTeX,

A. Djuricic, M. Harzhauser, P. Dorninger, C. Nothegger, O. Mandic, B. Székely, G. Molnar, N. Pfeifer: "*Parameter Estimation of Fossil Oysters from High Resolution 3D Point Cloud and Image Data*"; Talk: European Geosciences Union, General Assembly 2014, Wien; 2014-04-27 - 2014-05-02; in: "Geophysical Research Abstracts", 16 (2014), 16040-5.BibTeX

Djuricic, A. (2014): *Woman in science and engineering*. International Society for Photogrammetry and Remote Sensing Student Consortium newsletter, pp. 3-6.

Doná, G.G.; Tavares Júnior, J.B.; Ferreira, L.; **Djuricic, A.** (2013): Evaluation of the accuracy of coordinates obtained in Google Earth for the municipality of Inconfidentes - Minas Gerais, Brazil. Federal Institute of Education, Science and Technology of Sul de Minas Gerais, Brazil.

Djuricic, A.; Jutzi, B. (2013): *Supporting UAVs in low visibility conditions by multiple-pulse laser scanning devices*. High-resolution earth imaging for geospatial information. International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences.

Djuricic, A.; Hollaus, M. (2013): *Extraction of Forest Roads from Full-waveform Airborne Laser Scanning Data*. Poster: EGU 2013, 07-12 April; in Geophysical Research Abstracts, Vol. 15, Paper ID EGU2013-9912.

February 2018