Curriculum Vitae

Ana Puttonen (Djuricic), MSc.

Geburtsdaten: 06.07.1988 in Zaječar, Serbia
Anschrift: Hafengasse 15/24, 1030 Vienna, Austria
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Beruf: PhD researcher at the Vienna University of Technology, GEO-Departement, Research Group Photogrammetry

EDUCATION

03.2014 – 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 (FWF-Project P 25883)

9.2010 – 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

01.2013 – 12.2013 **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 Instituto Federal de Educação, Ciência e Tecnologia do Sul de Minas, Brazil (Federal Institute for Education, Science and Technology) •

- Researcher with responsibilities for:
- Surveying (GPS and total station measurements)
- Cartography (Open-Source-Software SPRING www.inpe.br)
- Remote Sensing and Geographical Information Systems (GIS Databases)
- Monitoring the temporal change of vegetation cover with a remote sensing technique (working with Landsat satellite imagery for land cover mapping in the tropical south of Minas Gerais, Brazil).

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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

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 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.**

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)
06.2016	**"Best Poster Award"** at the 19th International Conference on Geographical Information Science, AGILE in Helsinki (AGILE - the Association of Geographic Information Laboratories in Europe)

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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 **Studenica** - Republic of Serbia.

HOBBYS AND INTEREST

- Swimming and Nutrition
- Argentine Tango (main organizer of the group TANGO ARGENTINO @ TU WIEN)
- Event Management

PUBLICATIONS

Ana Puttonen, Mathias Harzhauser, Eetu Puttonen, Oleg Mandic, Balázs Székely, Gábor Molnár and Norbert Pfeifer, 2017. Deriving the 3D orientations of elongate objects in geosciences. 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

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. Rasztovits, 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.

Vienna, 19. February 2018