

CV

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Languages: Serbian (mother tongue), English (native), Spanish (native), French (advanced), Italian (intermediate), Russian (writing skills), Japanese (basic – level N5-N4 in Japanese system of evaluation).

• EDUCATION

- 22/08/2006 – 22/05/2013 **PhD**
Columbia University in the City of New York/Department of Earth and Environmental Sciences/Lamont-Doherty Earth Observatory, New York, The United States of America.
- 18/05/2011 **Master of Philosophy**
Columbia University in the City of New York/Department of Earth and Environmental Sciences/Lamont-Doherty Earth Observatory, New York, The United States of America.
- 21/05/2008 **Master of Arts**
Columbia University in the City of New York/Department of Earth and Environmental Sciences/Lamont-Doherty Earth Observatory, New York, The United States of America.
- 05/10/2000 – 31/10/2005 **Bachelor of Science**
Faculty of Mining and Geology/Department of Applied Geophysics/ Belgrade University, Serbia.

• CURRENT POSITION

16/09/2014 – present Post-doctorate at the Institut de Physique du Globe de Paris, France

• PREVIOUS POSITIONS

22/05/2013 – 15/09/2014 Self-employed - detailed explanation is provided in the end of the section.

22/08/2006 – 22/05/2013	Graduate student Columbia University in the City of New York/Department of Earth and Environmental Sciences/Lamont-Doherty Earth Observatory, New York, The United States of America.
21/11/2005 – 22/08/2006	Self-employed Preparing and taking required exams: <i>General Record Examinations</i> (GRE) and <i>Test of English as a Foreign Language</i> (TOEFL).
31/10/2000 – 21/11/2005	Internship at Roman archeological site – Viminacium, Serbia.
05/10/2000 – 31/10/2005	Undergraduate student Faculty of Mining and Geology/Department of Applied Geophysics/ Belgrade University, Serbia.

FELLOWSHIPS AND AWARDS

2015-2017	Marie Skłodowska-Curie Actions - Individual Fellowships (IF) H2020-MSCA-IF-2014
2006-2013	Columbia University Fellowship, Columbia University in the City of New York/Department of Earth and Environmental Sciences/ Lamont-Doherty Earth Observatory, New York, The United States of America.
03/2011	Grant from Chevron Student Initiative Fund for the project “Illumination study from two azimuth seismic surveys at the East Pacific Rise 9°N”
09/2011	SEG Scholarship Award “Richard and Rolande Lockhart”
06/2010	Travel grant for the 72nd EAGE Conference in Barcelona, Spain.
2008 - 2010	SEG Scholarship Award “Rodney Cottrell”
09/2007	SEG Scholarship Award “WesternGeco Scholarship”
2007	“Award for the Student of Generation 2005”, Belgrade University, Serbia
09/2006	SEG Scholarship Award, “SEG Foundation General Scholarship”
06/2005	Travel grant for the 67th EAGE Conference in Madrid, Spain
2005	“Award for the Best Student Paper in 2004/05”, Belgrade, Serbia
2004	The Royal Norwegian Scholarship
2001; 2003	“The Charter of Professor Branislav A. Milovanović, Faculty of Mining and Geology/Department of Applied Geophysics/ Belgrade University, Serbia.
2000; 2002; 2004	Award for the best undergraduate student Faculty of Mining and Geology/Department of Applied Geophysics/ Belgrade University, Serbia.

• TEACHING ACTIVITIES

20/01/2009 – 07/05/2009 Teaching Assistant – Science for Sustainable Development

(undergraduate level)/ Columbia University in the City of New York/ School of International Public Affairs (SIPA)/New York, The United States of America.

02/09/2008 – 11/12/2008 Teaching Assistant – Solid Earth (undergraduate level)/ Columbia University in the City of New York/ Department of Earth and Environmental Sciences/ New York, The United States of America.

05/10/2000 – 22/08/2006 Teaching Assistant – Geology (high-school level)/ Petnica Science center/ Serbia.

• RESEARCH EXPEDITIONS

March-April, 2015 Iso-Metrix 2D survey across the Atlantic Ocean aboard M/V Western Trident; post-doc participant on a project Trans-Atlantic ILAB, project funded by ERC and lead by Satish Singh

July-August, 2013 3D multichannel seismic survey at the East Pacific Rise/ aboard R/V M. Langseth, Rice University, Texas, The United States of America. Position: Co-PI.

January, 2013 Geochemistry - Petrology field trip in Oman, Columbia University in the City of New York/ New York, The United States of America. Position: Graduate student participant.

June-July, 2012 “From ridge to trench”, Multichannel seismic and Ocean Bottom Seismometers active survey across the Juan de Fuca plate/ aboard R/V M. Langseth, Columbia University in the City of New York, The United States of America. Position: Graduate student participant.

November-December, 2009 Ocean Bottom Seismometers survey at the Eastern Lau Spreading Center, aboard R/V R. Revelle, Columbia University in the City of New York, The United States of America. Position: Graduate student participant.

June-August, 2008 3D multichannel seismic survey at the East Pacific Rise/ aboard R/V M. Langseth, Columbia University in the City of New York, The United States of America. Position: Graduate student participant (the most of my thesis work has been concentrated on the data collected during this cruise).

• WORKING WITH INDUSTRY

01/06/2011 – 02/09/2011 Internship at ConocoPhillips within Subsurface Technology Group – Processing Team. The goal of the internship was to develop and test flows in different data domains (x-t, f-k and tau-p) for successful wave field separation using four components ocean bottom nodes (OBN) data. Houston, TX, The United States of America.

01/06/2011 – 31/08/2010 Internship at ExxonMobil within Exploration Group with Gravity and Magnetics Team. The goal of the internship was to create a database of rock properties (e.g. density, susceptibility, etc.) and use them in gravity/magnetics modeling.

• PUBLICATIONS IN PEER-REVIEWED JOURNALS

Marjanović, M., H. D. Carton, M. R. Nedimović, S. M. Carbotte, J. Mutter, J. P. Canales, (2015) Distribution of melt along the East Pacific Rise from 9°30' to 10°N from an amplitude variation with angle of incidence (AVA) technique, *Geophysical Journal International*, v.203. 1-21.

Marjanović, M., S. M. Carbotte, H. D. Carton, M. R. Nedimović, J. Mutter, J. P. Canales (2014), A multi-sill magma plumbing system beneath the axis of the East Pacific Rise, *Nature Geoscience*, vol.7, 825-829.

Carbotte S. M., **M. Marjanović**, Carton, H. D., J. C. Mutter, M. R. Nedimović, J. P. Canales, S. Han, M. Perfit (2013), Fine-scale segmentation of the crustal magma reservoir beneath the modern eruptive zone of the East Pacific Rise, *Nature Geoscience*, DOI: 10.1038/NGEO1933.

Canales J. P., H. Carton, S. M. Carbotte, J. C. Mutter, M. R. Nedimović, M. Xu, O. Aghaei, **M. Marjanović** and K. Newman (2012) "Network of off-axis melt bodies at the East Pacific Rise", *Nature Geoscience*, doi: 10.1038/ngeo1377.

Marjanović, M., S. M. Carbotte, M. R. Nedimović, and J. P. Canales (2011), Gravity and seismic study of crustal structure along the Juan de Fuca Ridge axis and across pseudofaults on the ridge flanks, *Geochem. Geophys. Geosyst.*, 12, Q05008, doi: 10.1029/2010GC003439.

Carbotte S. M., Nedimović M. R., Canales J. P., Kent G. M., Harding A., and **Marjanović M.**, (2008), "Variable crustal structure along the Juan de Fuca Ridge; influence of on axis hotspots and absolute plate motions", *Geochem. Geophys. Geosyst.*, vol. 9, Q08001.

• CONFERENCE ABSTRACTS

Marjanović M., Singh, S.C., Audhkhasi, P., Mehouchi, F., Seismic Reflection Imaging of the Lithosphere-asthenosphere Boundary Across the Atlantic Ocean, Abstract T41D-2926, 2015 Fall Meeting, AGU, San Francisco, California.

Marjanović M., Carton, H. D., Carbotte, S.M., Mutter, J.C., Nedimović, M.R., Canales, J.P., (2013), Seismic images of multiple magma sills beneath the East Pacific Rise, Abstract OS42A-05, Presented at 2013 Fall Meeting, AGU, San Francisco, California.

Marjanović M., Carton, H. D., S. M. Carbotte, J. C. Mutter, M. R. Nedimović, J. P. Canales, (2012), Distribution of melt at the East Pacific Rise 9°50'N from an amplitude variation with angle of incidence (AVA) technique, Abstract OS13D-1760, Presented at 2012 Fall Meeting, AGU, San Francisco, California.

Carbotte S.M., J. P. Canales, H. D. Carton, M. R. Nedimovic, S. Han, **M. Marjanović**, James C.

Gibson, Helen A. Janiszewski, Greg Horning, Matthias Delescluse, Louise Watremez, Aaron Farkas, Berta Biescas Gorriz, Guillermo Bornstein, Laurel B. Childress, Beatrice Parker, (2012), Evolution and hydration of the Juan de Fuca crust and uppermost mantle: a plate-scale seismic investigation from ridge to trench, Abstract T13H-01, Presented at 2012 Fall Meeting, AGU, San Francisco, California.

Carbotte S. M., **Marjanović M.**, Carton, H. D., J. C. Mutter, M. R. Nedimović, J. P. Canales, Xu M., Aghaei O., (2011), The ups and downs of magma in the crust beneath the East Pacific Rise axis 8°20-10°10'N, Abstract OS22A-01, Presented at 2011 Fall Meeting, AGU, San Francisco, California.

Marjanović, M., S. M. Carbotte, H. D. Carton, J. C. Mutter, M. R. Nedimović, J. P. Canales, (2010), Axial magma chamber segmentation along the East Pacific Rise from Clipperton to Siqueros Fracture Zone, Abstract OS21C-1511, Presented at 2010 Fall Meeting, AGU, San Francisco, California.

Carbotte S. M., **Marjanović M.**, M. R. Nedimović, J. P. Canales, (2010), Melt anomalies and propagating ridge offsets: Insights from the East Pacific Rise and Juan de Fuca Ridge, Abstract OS21C-1515, Presented at 2010 Fall Meeting, AGU, San Francisco, California.

Carton, H. D., S. M. Carbotte, J. C. Mutter, J. P. Canales, M. R. Nedimović, O. Aghaei, **M. Marjanović**, and K. R. Newman, (2010), Three-dimensional seismic reflection images of axial melt lens and seismic layer 2A between 9°42'N and 9°57'N on the East Pacific Rise, Abstract OS21C-1514, Presented at 2010 Fall Meeting, AGU, San Francisco, California. Citation #: 7.
Mutter, J.C., H. Carton, **M. Marjanović**, S. Carbotte, J.P. Canales, and M.R. Nedimović, (2010), Eruption-related changes in magma chamber structure at 9°50'N on the EPR from coincident reflection images, 1985 and 2008. Eos, Transactions, American Geophysical Union, Abstract OS24A-01.

Carton, H. D., S. M. Carbotte, J. C. Mutter, J. P. Canales, M. R. Nedimović, **M. Marjanović**, O. Aghaei, M. Xu, and S. Han and L. Stowe, Characteristics of the crustal body in the 2005- 2006 eruption area at 9°50'N on the East Pacific Rise from 3D multi-channel seismic data, (2009), Eos Trans. AGU, 90(52), Abstract OS11B-02, Presented at 2009 Fall Meeting, AGU, San Francisco, California.

Marjanović, M., S. M. Carbotte, M. R. Nedimović, J. P. Canales, (2008), Variations of the Crustal Structure Along the Juan de Fuca Ridge From Analysis of Gravity and Seismic Data, Eos Trans. AGU 89(53), Abstract V41B-2087, Presented at 2008 Fall Meeting, AGU, San Francisco, California.

Carbotte S. M., J. C. Mutter, J. P. Canales, M. R. Nedimović, H. D. Carton, M. Xu, K. Newman, **M. Marjanović**, O. Aghaei, L. Stowe, (2008), New observations of the magmatic segmentation of the East Pacific Rise from Siqueros to Clipperton from a multi-streamer seismic reflection imaging study, Eos Trans., AGU, 89 (53), Abstract B21A-0320, Presented at 2008 Fall Meeting, AGU, San Francisco, California.

Canales J. P., S. M. Carbotte, J. C. Mutter, M. R. Nedimović, H. Carton, M. Xu, O. Aghaei, K. Newman, **M. Marjanović** and (2008) "Discovery of off-axis melt lenses at the RIDGE2000 East Pacific Rise Integrated Study Site", Eos Trans., AGU, abstract #B21A-0319, Presented at 2008 Fall Meeting, AGU, San Francisco, California.

Carton H. D., Carbotte S. M., J. C. Mutter, J. P. Canales, M. R. Nedimović, K. Newman, **M.**

Marjanović, M. Xu, O. Aghaei, L. Stowe, (2008), Characteristics of the crustal magma body in the 2005-06 eruption area at 9°50'N on the East Pacific Rise from a 3D multi-channel seismic investigation, Eos Trans., AGU, 89 (53), Abstract B23F-03, Presented at 2008 Fall Meeting, AGU, San Francisco, California.

Mutter J. C., Carton H. D., Carbotte S. M., J. P. Canales, M. R. Nedimović, K. Newman, **M. Marjanović**, M. Xu, O. Aghaei, L. Stowe, (2008), Searching for Changes in AMC Characteristics on the EPR Using Comparisons of Reflection Images Obtained in 1985 and 2008, Eos Trans., AGU, 89 (53), Abstract B21A-0321, Presented at 2008 Fall Meeting, AGU, San Francisco, California.

Purdy G. M., Mutter J. C., Carton H. D., Carbotte S. M., J. P. Canales, M. R. Nedimović, K. Newman, **M. Marjanović**, M. Xu, O. Aghaei, L. Stowe, (2008), 3D Seismic Reflection Imaging of Crustal Formation Processes on the East Pacific Rise, 9°57-42'N, Eos Trans., AGU, 89 (53), Abstract B21A-0322, Presented at 2008 Fall Meeting, AGU, San Francisco, California.

• CONFERENCE PAPERS

Marjanović M., H. Carton, S. Carbotte (2015), Seismic images of multiple magma sills beneath the East Pacific Rise, 77th EAGE Conference and Exhibition incorporating SPE EUROPEC, Madrid 2015, Abstract doi. 10.3997/2214-4609.201413286 (EarthDoc).

Marjanović M., H. Carton, S. Carbotte (2013), AVA analysis applied to a molten rock, 75th EAGE Conference and Exhibition incorporating SPE EUROPEC, London 2013, Abstract doi. 10.3997/2214-4609.20130577 (EarthDoc).

Marjanović M., H. D. Carton, S. M., Carbotte, (2011), Investigation of axial magma chamber and its segmentation beneath the East Pacific Rise 9°N from seismic data, 73rd EAGE Conference and Exhibition, Vienna, Austria (EarthDoc).

Marjanović M., S. M. Carbotte, M. R. Nedimović, J. P. Canales, (2010), Variation of the crustal structure along the Juan de Fuca Ridge from analysis of gravity and seismic data, 72nd EAGE Conference and Exhibition, Barcelona, Spain (EarthDoc).

• TALKS

April, 2016, “Signatures of melt distribution along the EPR and connection with the hydrothermal circulation”, Kobe University, Kobe, Japan.

March, 2016, “Signatures of melt distribution along the EPR and connection with the hydrothermal circulation”, JAMSTEC, Yokohama, Japan.

March, 2016, “Signatures of melt distribution along the EPR and connection with the

hydrothermal circulation”, Seoul National University, South Korea (invited).

May, 2014, “Signatures of present melt distribution at fast spreading centers”, GEOMAR seminar, Kiel, Germany.

February, 2014, “Signatures of present melt distribution at fast spreading centers”, Seismology Geoscience seminar at IPGP, Paris, France (invited).

November, 2013, “Signatures of melt distribution at fast spreading centers”, Observatoire Midi-Pyrénées, Toulouse, France (invited).

October, 2013, “Signatures of present melt distribution at fast spreading centers”, Marine Geoscience seminar at IPGP, Paris, France (invited).

November, 2012, “Distribution of melt at the East Pacific Rise 9°50’N from an amplitude variation with angle of incidence (AVA) technique”, Geophysics seminar at Dalhousie University, Halifax, Canada (invited).

August, 2010, “Gravity and seismic study of crustal structure along the Juan de Fuca Ridge axis and across pseudofaults on the ridge flanks”, ExxonMobil Exploration Group in Houston, Texas, USA.

August, 2010, “Gravity and seismic study of crustal structure along the Juan de Fuca Ridge axis and across pseudofaults on the ridge flanks”, ExxonMobil Upstream Research Group in Houston, Texas, USA.

April, 2010, “Gravity and seismic study of crustal structure along the Juan de Fuca Ridge axis and across pseudofaults on the ridge flanks”, Marine Geology and Geophysics Seminar, Lamont-Doherty Earth Observatory, New York, NY, USA.

• MEMBERSHIPS OF SCIENTIFIC SOCIETIES

European Association of Geoscientists and Engineers (EAGE)
American Geophysical Union (AGU)
Society of Exploration Geophysicists (SEG)

• CONTRIBUTIONS

01/10/2015 – present Discussion Moderator Co-Chair for Women in Geoscience and Engineering under EAGE (<http://www.eage.org/?evp=13076>)

* 22/05/2013 – 11/09/2014

For proper balance between my personal and professional life, after finishing PhD I

decided to return to Europe (my close family members reside in Serbia and my partner is currently living and working in France). To create opportunities for continuing the path of a researcher in Marine Geophysics and during the period between 22/05/2013 – 11/09/2014 I worked on the following aspects:

- a) **Extending academic network:** I have established contacts with researchers in Europe: e.g. Anne Briais at the Observatoire Midi-Pyrenees, Toulouse; Satish Singh, Nobuaki Fuji, Mathilde Cannat at IPGP; Heidrun Kopp at GEOMAR, who invited me to give talks at their institutions (see the list of talks).
- b) **Participation in a research cruise.** I participated in the international (Europe-USA) Galicia 3D survey as a Co-PI. The cruise was led by Dale Sawyer from Rice University – USA, César Ranero from Barcelona Center for Subsurface Imaging - Spain and Tim Reston from Birmingham University – UK.
- c) **Dissemination of PhD work:**
 - **Conferences:** I have participated in two conferences - EAGE conference in London (Europe) and AGU Fall Meeting in San Francisco (USA).
 - **Publications:** I have been preparing articles for publication (the articles are result of my PhD work):
 1. “*A multi-sill magma plumbing system beneath the axis of the East Pacific Rise*” has been accepted by Nature Geoscience and is expected to be in press shortly;
 2. “*Distribution of melt along the East Pacific Rise from 9°30' to 10°N from an amplitude variation with angle of incidence (AVA) technique*” is going to be submitted to *Geophysical Journal International* by the end of September.
- d) **Language skills:** I significantly improved speaking and writing skills in French (foremost professional – Geology/Geophysics) and have started studying Japanese.
- e) Improving photography and design skills: I took advanced online courses for Adobe Illustrator (in English) and I have been taking online Photography Expert courses (in French).