

# EUROPEAN CURRICULUM VITAE FORMAT



## PERSONAL INFORMATION

Surname(s) / First name(s)	<b>Poljančić Beljan Ivana</b>
Address(es)	University of Rijeka, Department of Physics, Radmile Matejčić 2, HR Rijeka 51000
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Nationality(-ies)	Croatian
Date of birth	23.November1984.
Identification number from Records of Scientific Workers	<b>312690</b>

## WORK EXPERIENCE

• Dates (from – to)	September 2007 – October 2007
Name and address of employer	Comprehensive school Delnice, Croatia
Type of business or sector	Professor of mathematics
Occupation or position held	Teacher in mathematics
Main activities and responsibilities	Teaching in mathematics
• Dates (from – to)	January 2009 – November 2015
Name and address of employer	University of Rijeka, Department of Physics
Type of business or sector	Teaching and research
Occupation or position held	PhD student, junior researcher
Main activities and responsibilities	Teaching and research in Astrophysics and Educational physics
• Dates (from – to)	December 2015 -
Name and address of employer	University of Rijeka, Department of Physics
Type of business or sector	Teaching and research
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching and research in Astrophysics

## EDUCATION

Date	15.12. 2008.
Place of education	Rijeka
Name and type of organisation providing education	Faculty of Arts and Sciences, University of Rijeka
Title or qualification awarded	Professor of mathematics and physics
Date	29. 5. 2018.
Place of education	Graz, Austria
Name and type of organisation providing education	Naturwissenschaftlichen Fakultät, Karl-Franzens-Universität Graz
Title or qualification awarded	Doktorin der Naturwissenschaften, Dr. rer. nat.

## TRAINING

Year	2009.
Place of training	Rijeka
Name and type of organisation providing training	University of Rijeka, Academy of Informatical Technologies, Training programme
Principal subjects/Occupational skills covered	Implementation of e-learning in teaching process

Year	20 – 30 September 2009
Place of training	Rabac
Name and type of organisation providing training	SISSA (Trieste, Italy), Department of Physics of the University of Rijeka (Rijeka, Croatia) - Summer School NOVICOSMO 2009, Highlights in Astrophysics
Principal subjects/Occupational skills covered	Cover the major topics in modern astronomy and astrophysics

Year	2010.
Place of training	Rijeka
Name and type of organisation providing training	University of Rijeka, Academy of Informatical Technologies, Training programme
Principal subjects/Occupational skills covered	PANOPTO - e-learning system for recording and playback of lectures

Year	11. – 15. 10. 2010.
Place of training	Padova
Name and type of organisation providing training	Osservatorio Astrofisico Universita di Padova
Principal subjects/Occupational skills covered	Measurements – photometry of young stellar objects

Year	19. – 21. 12. 2014.
Place of training	Kanzelhöhe
Name and type of organisation providing training	Kanzelhöhe Observatory for Solar and Environmental Research, University of Graz
Principal subjects/Occupational skills covered	Solar Physics - working meeting

## PERSONAL SKILLS AND COMPETENCIES

Mother tongue(s)	Croatian
Other language(s)	
Language	English
Speaking	Very good
Writing	Very good
Understanding (listening and reading)	Very good

<b>SOCIAL SKILLS AND COMPETENCIES</b>	Very sociable person with good communication skills, conscientiously.
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<b>ORGANISATIONAL SKILLS AND COMPETENCIES</b>	I was member of technical staff of GIREP-EPEC Conference Opatija 2007, Frontiers of physics education. I was member of LOC for Summer School NOVICOSMO 2009, Highlights in Astrophysics, 20 – 30 September 2009, Rabac, Croatia.
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<b>TECHNICAL SKILLS AND COMPETENCIES</b>	I can use numerous text and graphics software packages (MS Office, LaTeX, Python, Mathematica, SMONGO, Origin...). I Implement e-learning in teaching process.
<b>ARTISTIC SKILLS AND COMPETENCIES</b>	Playing the accordion.
<b>OTHER SKILLS AND COMPETENCIES</b>	Playing recreational volleyball.
<b>DRIVING LICENCE(S)</b>	B category since 2003.
<b>ADDITIONAL INFORMATION</b>	<p>- Graduate thesis in astrophysics: “<i>Determination of atmospheric parameters of galactic B supergiants</i>”, PhD thesis in solar physics: “<i>Properties of the solar velocity field indicated by motions of sunspot groups and coronal bright points</i>”</p> <p>- Within the 7th and 8th Science Festival in Rijeka (2009, 2010) I participated in popularisation of science by performing science in the street “Hokus-pokus physics”.</p> <p>- On the 8th Science Festival Rijeka (2010) I had a popular-science presentation “Little Einsteins”, and on 13th Science Festival Rijeka (2015) a popular-science presentation “<i>How much do we know about the Sun?</i>”</p> <p>- co-mentor (graduate thesis of Elizabeta Poropat) - popularization-educational content “<i>How much do we know about the Sun?</i>”</p> <p>- co-mentor (graduate thesis of Marija Čragonja) – “<i>Determination of the solar differential rotation by using positions of the sunspot groups</i>”</p>
<b>ANNEXES</b>	<b>List of scientific publications</b>

#### Current Contents publications:

1. **Poljančić Beljan, I.**, Jurdana-Šepić, R., Brajša, R., Sudar, D., Ruždjak, D., Hržina, D., Pötzi, W., Hanslmeier, A., Veronig, A., Skokić, I., Wöhl, H.: Solar differential rotation in the period 1964 - 2016 determined by the Kanzelhöhe data set, *Astronomy and Astrophysics*, **606** (2017), A72 (Q1, if = 5.565)
2. Jurdana-Šepić, R., Brajša, R., Wöhl, H., Hanslmeier, A., **Poljančić, I.**, Svalgaard, L., Gissot, S. F.: A relationship between the solar rotation and activity in the period 1998–2006 analysed by tracing small bright coronal structures in SOHO-EIT images, *Astronomy and Astrophysics*, **534** (2011), A17 (Q1, if = 4.587)
3. Ruždjak, D., Brajša, R., Sudar, D., Skokić, I., **Poljančić Beljan, I.**: A Relationship between the Solar Rotation and Activity Analysed by Tracing Sunspot Groups, *Solar Physics*, **292** (2017), 179, (Q2, if = 2.682)
4. Sudar, D., Saar, S. H., Skokić, I., **Poljančić Beljan, I.**, Brajša, R.: Meridional motions and Reynolds stress from SDO/AIA coronal bright points data, *Astronomy and astrophysics*, **587** (2016), A29, (Q1, if = 5.014)
5. Sudar, D., Brajša, R., Skokić, I., **Poljančić Beljan, I.**, Wöhl, H.: Meridional Motion and Reynolds Stress from Debrecen photoheliographic Data, *Solar Physics*, **292** (2017), 86, (Q2, if = 2.682)
6. **Poljančić Beljan, I.**, Jurdana-Šepić, R., Semkov, E. H., Ibryamov, S., Peneva, S. P., Tsvetkov M. K.: Long-term photometric observations of pre-main sequence objects in the field of North America/Pelican Nebula, *Astronomy and Astrophysics*, **568** (2014), A49, (Q1, if = 4.378)
7. Vršnak, B., Dumbović, M., Čalogović, J., Verbanac, G., **Poljančić Beljan, I.**, Geomagnetic effects of corotating interaction regions, *Solar Physics*, **292** (2017), 140, (Q2, if = 2.682)
8. Ruždjak, D., Sudar, D., Brajša, R., Skokić, I., **Poljančić Beljan, I.**, Jurdana-Šepić, R., Hanslmeier, A., Veronig, A., Pötzi, W., Meridional Motions and Reynolds Stress Determined by using Kanzelhöhe Drawings and White Light Solar Images from 1964 to 2016, *Solar Physics*, **293** (2018), 59, (Q2, if (2017) = 2.682)

#### Other peer-reviewed publications:

1. **Poljančić Beljan, I.**, Jurdana-Šepić, R., Čragonja, M., Brajša, R., Hržina, D., Pötzi, W., Hanslmeier, A.: An analysis of the solar differential rotation from the Kanzelhöhe sunspot drawings, *Cent. Eur. Astrophys. Bull.*, **38** (2014), 87–93
2. Jurdana-Šepić, R., **Poljančić Beljan, I.**: A search for T Tauri stars and related objects: archival photometry of candidate variables in V733 Cep field, *Cent. Eur. Astrophys. Bull.*, **39** (2015) 1, 87-93
3. Skokić, I., Sudar D., Saar, S. H., Brajša, R., **Poljančić Beljan, I.**: An application of the random walk model to proper motions of coronal bright points from SDO data, *Cent. Eur. Astrophys. Bull.*, **40** (2016) 1, 23–28

#### Scientific publications in conference proceedings with international review:

1. **Poljančić, I.**, Brajša, R., Ruždjak, D., Hržina, D., Jurdana-Šepić, R., Wöhl, H., Otruba, W.: A comparison of sunspot position measurements from different data sets, *Sun and Geosphere*, **5** (2010), 52-57

2. **Poljančić, I.**, Brajša, R., Hržina, D., Wöhl, H., Hanslmeier, A., Pötzi, W., Baranyi, T., Özgüç, A., Singh, J., Ruždjak, V.: Differences in heliographic positions and rotation velocities of sunspot groups from various observatories, *Cent.Eur. Astrophys. Bull.*, **35** (2011), 59–70

#### Professional papers in inland conference proceedings:

1. **Poljančić, I.**, Brajša, R., Ruždjak, D., Hržina, D., Jurdana-Šepić, R., Wöhl, H.: Usporedba položaja grupa sunčevih pjega opaženih na različitim observatorijima, stručni skup Nastavne sekcije HAD-a povodom Međunarodne godine astronomije – Žene u astronomiji, Bolid 129 (broj 4/2011), Zvezdarnica Zagreb, Zagreb, listopad - prosinac 2011., 55-59
2. Pranjčić-Petrović, T., **Poljančić, I.**, Milotić, B.: Radionica - Priča o toplini, Zbornik IX. hrvatskog simpozija HFD o nastavi fizike, Interaktivna nastava fizike, Pečina, P. (ur.), HFD, Zagreb, 2009., 197-201

#### Abstracts in international conference proceedings:

1. **Poljančić, I.**, Milotić, B., Jurdana-Šepić, R.: Basic concepts of waves and optics in a scientific literacy survey, Program and book of abstracts: Physics community and cooperation, University of Leicester, 2009., 38-39

#### Participation at conferences (plenary session or poster):

1. **Poljančić, I.**, Brajša, R., Ruždjak, D., Hržina, D., Jurdana-Šepić, R., Wöhl, H., Otruba, W.: A comparison of sunspot position measurements from different data sets, **oral presentation**, IHY-ISWI Regional Meeting "Heliophysical phenomena and Earth's environment", Šibenik, Croatia, 7 – 13 September 2009
2. **Poljančić, I.**, Jurdana-Šepić, R., Milotić, B.: Basic concepts of waves and optics in a scientific literacy survey, **oral presentation**, GIREP – EPEC with PHEC 2009, Physics Community and Cooperation, Leicester, UK, 17 – 21 August, 2009
3. **Poljančić, I.**, Brajša, R., Hržina, D., Wöhl, H., Hanslmeier, A., Pötzi, W., Baranyi, T., Özgüç, A., Singh, J., Ruždjak, V.: Differences in heliographic positions and rotation velocities of sunspot groups from various observatories, **oral presentation**, Xth Hvar Astrophysical Colloquium, THE ACTIVE SUN, Hvar, Croatia, 6 - 10 September 2010
4. **Poljančić Beljan, I.**, Jurdana-Šepić, R., Čargonja, M., Brajša, R., Hržina, D., Pötzi, W., Hanslmeier, A.: Solar differential rotation analysis from Kanzelhöhe sunspot drawings; **poster**; XIIIth Hvar Astrophysical Colloquium; Hvar; Croatia, 22 - 26 September 2014
5. **Poljančić Beljan, I.**, Jurdana-Šepić, R., Brajša, R., Hržina, D., Pötzi, W., Hanslmeier, A., Ruždjak, D., Sudar, D., Skokić, I., Wöhl, H.: Determination of the Kanzelhöhe sunspot group positions: manual versus automatic method, **oral presentation**, Multi Wavelength Studies of the Solar Atmosphere: Celebrating the Career of Costas Alissandrakis, 21 - 24 September 2015, Ioannina, Greece
6. **Poljančić Beljan, I.**, Jurdana-Šepić, R., Munari, U.: Photometric observations of pre-main sequence objects, **oral presentation**, XVth Hvar Astrophysical Colloquium, October 17 - 20, 2017, Hvar, Croatia

#### Conferences (local organizing committee):

25. i 26. 3. 2013. Second Rijeka's school of Physics; Rijeka;  
 16. i 17. 4. 2014. Third Rijeka's school of Physics; Rijeka  
 20. – 30. 9. 2009. Summer School NOVICOSMO 2009, Highlights in Astrophysics; Rabac;  
 26. -31. 8. 2007. GIREP-EPEC, Frontiers of physics education; Opatija

#### Visiting scientific institutions:

1. Osservatorio Astrofisico Università di Padova, Asiago, Italija, archival photometric measurements of variable stars (11. – 15. 10. 2010.)
2. Kanzelhöhe Observatory for Solar and Environmental Research, University of Graz, Kanzelhöhe, Austrija (19. – 21. 12. 2014., 4. – 7. 1. 2017., 22. – 26. 12. 2017.)

#### Participation in national and international projects:

- 2014 - [SOLSTEL \(Solar and Stellar Variability\)](#); Croatian science foundation (nr. 6212)  
 2014 - [Solar rotation and photometry of variable stars](#), project of the University of Rijeka, Croatia  
 2010 - 2013 "Diagnostics and physical properties of circumstellar matter" (Ministry of Science, Croatia)  
 2007 - 2009 „Development and modeling of physical concepts in classroom and e-environment“ (Ministry of Science, Croatia)

**Teaching:** Department of Physics, University of Rijeka, Croatia (from 2009 – present: around 1000 hours of exercises and 30 hours of lectures at Undergraduate Study Programme in Physics, Graduate Study Programme in Physics and Mathematics)

**Some of the courses:**

- Physics I (Mechanics)
- Physics II (Electricity and magnetism)
- Fundamentals of Computer Science
- Fundamentals of Mathematics
- Medical Physics and Biophysics
- Physics Laboratory IV

**Awards**

Award of the University of Rijeka for teaching excellence, Rijeka, May 2018