

CURRICULUM VITAE

Personal Data:

Lana Ivanjek

Date of Birth: April 23, 1983

Place of Birth: Zagreb, Croatia

Nationality: Croatian

E-mail address: лана@phy.hr

Research focus:

Physics education research, especially development and validation of new teaching materials

Working experience:

From September 2014. Lise Meitner Scholarship at University of Vienna, Austrian Educational Competence Centre Physics
AECC Physik

2012. – present: University of Zagreb, Faculty of science, Department of Physics:
Higher teaching assistant

2006. - 2012: University of Zagreb, Faculty of science, Department of Physics:
Scientific novice / teaching assistant

Teaching experience:

Undergraduate courses on Faculty of Science, Department of Physics:

Education Seminary in Physics Education (2009 – Present)

Introductory Physics 1 & 2 for future Physicists (2009/10)

Introductory Physics 1 - 4 for future Physics Teachers (2008 – 2009, 2012-Present)

Laboratory on Experiments in Physics Education (2006 – 2008)

Physics teaching practice 1, 2 (2006 – Present).

Education:

2006 – 2012: University of Zagreb, Faculty of science, Graduate study of Physics,

Field: Atomic and molecular Physics and Astrophysics

2001 – 2006: University of Zagreb, Faculty of science, Department of Physics

Field: physics teacher

1997 – 2001: *Secondary school in Zagreb: V. Gymnasium*

Professional training:

Visiting scientist at Physics Education Group at University of Washington, Seattle, USA:

January – March 2009, May 2010, May – June 2011 and July – August 2013

Summer institute in Physics at University of Washington, Seattle, USA: July 2009

Awards:

Compliment of Faculty of Science council for extraordinary success during undergraduate study (2005)

Organization competences:

Member of organization committee of:

Eight Croatian Physics Education Conference - 2007

Summer school for young physicists – 2008

Ninth Croatian Physics Education Conference – 2009

Tenth Croatian Physics Education Conference – 2011

Eleventh Croatian Physics Education Conference - 2013

Member of the national committee for Physics competitions (2007 – present)

Language skills:

Croatian: *native speaker*

English: *excellent written and oral skills*

German: *excellent written and excellent oral skills*

Other interests and activities:

2009 – present: leadership of volunteer organization in Zagreb “Don Bosco Volunteers” responsible for helping children with school problems

Publications:

1. Planinić, Maja; Ivanjek, Lana; Sušac, Ana. The Rasch model based analysis of the Force Concept Inventory, *Physical Review Special Topics - Physics Education Research*. 6 (2009)
2. Planinić, Maja; Milin-Šipuš, Željka; Katić, Helena; Ivanjek, Lana; Sušac, Ana. Comparison of student understanding of line graph slope in physics and mathematics, *International Journal of Science and Mathematics Education*, 10,6. (2012)
3. Planinić, Maja; Milin-Šipuš, Željka; Ivanjek, Lana; Sušac, Ana. Comparison of university students' understanding of graphs in different context, *Physical Review Special Topics - Physics Education Research*. 9 (2013)
4. Ivanjek, L.; Shaffer, P.S.; McDermott, L.C.; Planinic, M.; Veza, D. Research as a guide for curriculum development: An example from introductory spectroscopy. Part I: Identifying student difficulties with atomic emission spectra, *accepted for publication in American Journal of Physics* (2013)
5. Ivanjek, L.; Shaffer, P.S.; McDermott, L.C.; Planinic, M.; Veza, D. Research as a guide for curriculum development: An example from introductory spectroscopy. Part II: Addressing student difficulties with atomic emission spectra, *accepted for publication in American Journal of Physics*
6. Planinić, Maja; Ivanjek, Lana; Sušac, Ana; Pećina, Planinka; Krsnik, Rudolf; Planinić, Mirko; Jakopović, Željko; Halusek, Vlado. Large-scale research on Croatian high school students' conceptual understanding in mechanics // *GIREP - EPEC Conference 2007 Selected Contributions, 2008. 295-300*
7. Ivanjek, Lana, McDermott, Lillian C., Shaffer, Peter & Planinić, Maja. Preliminary investigation of student understanding of spectra // *Teaching and learning physics today: Challenges? Benefits? Reims: Universite de Reims Champagne-Ardenne, 2010. 135-135, abstract*
8. Planinić, Maja; Ivanjek, Lana; Sušac, Ana. Measurement in physics education research with the Rasch model // *GIREP – ICPE – MPTL 2010 Conference: Teaching and Learning Physics Today, Book of Abstracts. Reims : Universite de Reims Champagne - Ardenne, 2010. 192-192, abstract.*
9. Ivanjek, Lana; Planinić, Maja; Sušac, Ana. Influence of interactive teaching methods on students' conceptual knowledge in mechanics and electricity and magnetism // *Physics Curriculum Design, Development and Validation, Nicosia, Cyprus, 2008. 139-139, abstract*

10. Ivanjek, Lana; Planinić, Maja; Sušac, Ana. Influence of interactive teaching methods on students' conceptual knowledge in mechanics and electricity and magnetism // *Ninth Croatian Physics Education Conference proceedings /Zagreb: Croatian Physics Society, 2009. 286-289.*
11. Ivanjek, Lana; Sušac, Ana. Learning Physics through guided inquiry // *Ninth Croatian Physics Education Conference proceedings /Zagreb: Croatian Physics Society, 2009. 249-251*
12. Planinić, Maja; Ivanjek, Lana; Sušac, Ana; Pećina, Planinka; Krsnik, Rudolf; Planinić, Mirko; Jakopović, Željko; Halusek, Vlado. National investigation on Croatian high school students' conceptual understanding in mechanics // *Eight Croatian Physics Education Conference proceedings /Zagreb: Croatian Physics Society, 2008 / Zagreb : HFD, 2008. 17-25*
13. Ivanjek, Lana; Planinić, Maja; Prohaska, Tea. What can we find out from graphs? (Workshop) // *Eleventh Croatian Physics Education Conference proceedings /Zagreb: Croatian Physics Society*
14. Planinić, Maja; Ivanjek, Lana. Different approach to energy // *Tenth Croatian Physics Education Conference proceedings /Zagreb: Croatian Physics Society*
15. Planinić, Maja; Ivanjek, Lana; Sušac, Ana. FCI test Analysis // *Eight Croatian Physics Education Conference proceedings /Zagreb: Croatian Physics Society, 2008 / Zagreb : HFD, 2008. 225-227.*
16. Ivanjek, Lana. Can we see behind the corner? // *Matematičko fizički list. 233 (2008); 29-29*
17. Ivanjek, Lana. Simple experiments that demonstrate air pressure // *Matematičko fizički list. 228 (2007); 254-254*