# Ana Simović


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## Education

- 2014 PhD in Physics „Investigation of transmission characteristics of multimode W-type optical fibers“, Faculty of Science, Department of Physics, University of Kragujevac
- 2008 -2014 PhD student, Faculty of Science, Department of Physics, University of Kragujevac
- 2004 – 2008 BCs, Faculty of Science, Department of Physics, University of Kragujevac (9.66)
- 2000 – 2004 High schol, „Prva kragujevačka gimnazija“, Kragujevac

## Work experience

- 2009-2010 Reasearcher on the project Ministry of Science of the Republic of Serbia “Theoretical and experimental investigations in microdosimetry and radioecology” (Project No. 141023)
  University of Kragujevac, Faculty of Science, Department of Physics
- 2011 -2014 Reasearcher on the project Ministry of Science of the Republic of Serbia “Photonic components and systems” (Project No. 171011)
  University of Kragujevac, Faculty of Science, Department of Physics
- 2014 - Teaching Assistant, University of Kragujevac, Faculty of Science, Department of Physics

## Teaching experience

- Informatics/Computer programming
- Numerical methods and simulations in physics
- Optical waveguide
- Electrodynamics
- Experimental techniques in physics
- Physics and informatics in school 1
- Physics and informatics in school 2

## Research experience

- Optical fibers

## Publications

### Papers in International Journals

**A. Simovic**, S. Savovic, B. Drljaca, A. Djordjevich, Influence of the fiber design and launch beam on transmission characteristics of W-type optical fibers, Optics and Laser Technology, Vol. 68, 2015, pp. 151-159.

S. Savovic, M. S. Kovacevic, J. S. Bajic, D. Z. Stupar, A. Djordjevich, M. Zivanov, B. Drljaca, **A. Simovic**, K. Oh, Temperature dependence of mode coupling in low-NA plastic optical fibers, Journal of Lightwave Technology, Vol. 33, No. 1, 2015, pp. 89-94.

**A. Simovic**, S. Savovic, B. Drljaca, A. Djordjevich, Influence of intermediate layer on transmission characteristics of W-type optical fibers, Optics and Laser Technology, Vol. 57, 2014, pp. 209-215.

S. Savovic, **A. Simovic**, A. Djordjevich, Influence of width of launch beam distribution on equilibrium mode distribution in W-type glass optical fibers, Optics and Laser Technology, Vol. 48, 2013, pp. 565-569.

S. Savovic, **A. Simovic**, A. Djordjevich, Explicit finite difference solution of the power flow equation in W-type optical fibers, Optics and Laser Technology, Vol. 44, No. 6, 2012, pp. 1786-1790.

**A. Simovic**, A. Djordjevich, S. Savovic, Influence of depth of intermediate layer on optical power distribution in W-type optical fibers, Applied Optics, Vol. 51, No. 20, 2012, pp. 4896-4901.

S. Savovic, A. Djordjevich, **A. Simovic**, B. Drljaca, Equilibrium mode distribution and steady-state distribution in 100-400 mu m core step-index silica optical fibers, Applied Optics, Vol. 50, No. 21, 2011, pp. 4170–4173

A. Djordjevich, S. Savovic, P. W. Tse, B. Drljaca, **A. Simovic**, Mode coupling in strained and unstrained step-index glass optical fibers, Applied Optics, Vol. 49, No. 27, 2010, pp.5076-5080.

S. Savović, A. Djordjevich, B. Drljača, **A. Simović**, Equilibrium mode distribution and steady state distribution in step index glass optical fibers, Acta Physica Polonica A, Vol. 116, No. 4, 2009, pp. 655-657

## Contributions to International Conferences
## (Published in the Conference Proceedings)

S. Savovic, M. S. Kovacevic, J. S. Bajic, D. Z. Stupar, A. Djordjevich, M. Zivanov, B. Drljaca, **A. Simovic**, K. Oh, Temperature dependence of mode coupling in low-NA plastic optical fibers. In the Proceedings of the 3th International POF Modeling Workshop, September 21, 2015, Nuremberg, Germany.

A. Janicijevic, S. Savovic, A. Djordjevich, **A. Simovic**, B. Drljaca, Numerical solution of the diffusion equation for binary gas mixtures, In the Proceedings of the 7th International Scientific Conference Contemporary Materials, December 21-22, 2014, Banja Luka, Republic of Srpska.

S. Savovic, A. Djordjevich, **A. Simovic**, B. Drljaca, A. Janicijevic, Numerical solution of the advection-diffusion equation with constant and periodic boundary conditions, In the Proceedings of the 7th International Scientific Conference Contemporary Materials, December 21-22, 2014, Banja Luka,Republic of Srpska.

S. Savovic, **A. Simovic**, A. Djordjevich, A. Janicijevic, Equilibrium mode distribution in W-type glass optical fibers, In the Proceedings of the 6th International Scientific Conference on Contemporary Materials, July 4-6, 2013, Banja Luka, Republic of Srpska.

S. Savovic, A. Djordjevich, **A. Simovic**, B. Drljaca, A. Janicijevic, Mode coupling in large core step-index silica optical fibers, In the Proceedings of the 6th International Scientific Conference on Contemporary Materials, July 4-6, 2013, Banja Luka, Republic of Srpska.

S. Savovic, A. Djordjevich, A. Janicijevic, B. Drljaca, **A. Simovic**, Modeling the bend-induced loss in polymethylmetacrylate step-index plastic optical fibers, In the Proocedings of the 4th International Scientific Conference on Contemporary Materials, July 1-2, 2011, Banja Luka, Republic of Srpska, pp. 123-130.

## Scientific Conferences

II International School and Conference on Photonics
24-28 August 2009, Belgrade, Serbia

Balkan Summit of Young Scientists
17-19 December 2010, Thessaloniki, Greece

International Scientific Conference on Contemporary Materials 2011,
July 1-2, 2011, Banja Luka, Republic of Srpska

III International School and Conference on Photonics
29 August- 2 September, 2011, Belgrade, Serbia

International Scientific Conference on Contemporary Materials 2013,
July 4-6, 2013, Banja Luka, Republic of Srpska