

- ADDRESS Particle Astrophysics Center  
Fermi National Accelerator Laboratory  
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tel. +1 (347) 414 6255, email: gz226@nyu.edu
- PRESENT POSITION Currently visiting the Particle Astrophysics Center  
Fermi National Accelerator Laboratory, Batavia, Illinois and  
Instructor for the course "Universe: Past, Present and Future" at  
Northeastern Illinois University for Spring 2007
- EDUCATION Graduate, 1999-2005:  
  
New York University, Department of Physics  
4 Washington place, New York, NY 10003, USA  
Ph.D., September 2005  
Thesis: *Alternative Approaches to the Dark Matter Puzzle*  
Advisor: Prof. Glennys R. Farrar  
M.S., January 2002  
  
Undergraduate, 1993-1998:  
  
University of Belgrade, Department of Physics  
Studentski trg 12, YU-11000 Belgrade, Serbia  
Degree: B. Sc.  
Thesis: *An Application of Feynman-Kleinert's variational method*  
Advisor: Aleksandar Bogojević
- TEACHING EXPERIENCE 2000-2005: Teaching Assistant at New York University, College of  
Arts and Science.  
  
Courses taught:  
*Quantum Mechanics* (Spring 2000): Problem solving for students ma-  
joring in physics, 2 hours per week, Professor Robert Richardson.  
*Exploration of Light and Colors* (Fall 2000/Spring 2001): Problem  
solving and laboratory experiences for students majoring in art, 6  
hours per week plus office hour, Prof. Andre Adler.  
*General Physics Recitations* (Fall 2001/Spring 2002) Problem solving  
mostly for pre-med students, 6 hours per week plus office hour, Pro-  
fessors Howard Brown, Henry Stroke and Edward Robinson.  
*General Physics Recitations* (Fall 2003/Spring and Summer 2004)  
Problem solving mostly for pre-med students, 6 hours per week plus  
office hour, Professors Engelbert Schucking, David Hogg and Andre  
Adler.

*Einstein's Universe* (Spring 2005) Problem solving and laboratory experiences for students majoring in art, 6 hours a week plus office hour, Professor Andrew Kent.

*General Physics Labs* (Summer 2005) Laboratory experiences for pre-med students, 6 hours per week.

1998: Physics Teacher, Perlez School, Yugoslavia.

Course taught: Elementary Physics for Junior High students.

SCIENTIFIC  
PUBLICATIONS

D. Hooper and G. Zaharijas, "Distinguishing Supersymmetry From Universal Extra Dimensions or Little Higgs Models With Dark Matter Experiments", [arXiv:hep-ph/0612137].

G. Zaharijas and D. Hooper, "Challenges in detecting gamma-rays from dark matter annihilations in the galactic center," Phys. Rev. D **73**, 103501 (2006) [arXiv:astro-ph/0603540].

G. R. Farrar and G. Zaharijas, "Dark matter and the baryon asymmetry," Phys. Rev. Lett. **96**, 041302 (2006), [arXiv:hep-ph/0510079].

G. R. Farrar and G. Zaharijas, "Dark matter and the baryon asymmetry of the universe," [arXiv:hep-ph/0406281].

G. Zaharijas and G. R. Farrar, "A Window in the Dark Matter Exclusion Limits," Phys. Rev. D **72**, 083502 (2005) [arXiv:astro-ph/0406531].

G. R. Farrar and G. Zaharijas, "Nuclear and nucleon transitions of the H di-baryon," Phys. Rev. D **70**, 014008 (2004) [arXiv:hep-ph/0308137].

G. R. Farrar and G. Zaharijas, "Transitions of two baryons to the H dibaryon in nuclei," arXiv:hep-ph/0303047.

G. R. Farrar and G. Zaharijas, "Non-binding of flavor-singlet hadrons to nuclei," Phys. Lett. B **559**, 223 (2003) [Erratum-ibid. B **575**, 349 (2003)] [arXiv:hep-ph/0302190].

SCIENTIFIC  
TALKS

"Implications of HESS measurement on dark matter detection in future  $\gamma$  ray observations," Argonne National Laboratory, Argonne, IL, November 17th, 2005.

"Experimental Limits on Dark Matter Properties from Detection Experiments," Argonne National Laboratory, Argonne, IL, July 14th, 2005.

“ A Window in the DM Exclusion Limits,” Yale University, New Haven, CT, June 28th, 2005.

“ Dark Matter and the Baryon Asymmetry of the Universe and Light DM direct detection limits,” BIPAC Seminar, Oxford University, Oxford, UK, October 5th, 2004.

“Dark Matter and the Baryon Asymmetry of the Universe,” DESY Theory Workshop 2004, Hamburg, Germany, September 30th, 2004.

“Phenomenology of a Stable or Long-Lived H di Baryon,” High Energy/RIKEN Theory Seminar, Brookhaven National Laboratory, Brookhaven, NY, May 12th, 2004.

“A Stable H Dibaryon,” The April Meeting of the American Physical Society, Philadelphia, PA, April 6th, 2003.

CONFERENCES  
AND SCHOOLS

*DESY Theory Workshop 2004*, DESY, Hamburg, Germany, September 28th - October 1st, 2004.

*Dark Matter 2004*, Marina del Rey, CA, February 18th - 20th, 2004.

*Prospects in Theoretical Physics: Cosmology, Particles and Strings*, Institute for Advanced Study, Princeton, NJ, June 30th - July 11th, 2003 (poster).

*The April Meeting of the American Physical Society*, Philadelphia, PA, April 5th - 8th, 2003.

*Summer School on Astroparticle Physics and Cosmology*, ICTP, Trieste, Italy, June 17th - July 5th, 2002.

*Summer School in Particle Physics*, ICTP, Trieste, Italy, June 20th - July 11th, 2001.

*International Cosmic Ray Meeting*, Observatoire de Paris, Meudon, France, July 2nd - 14th, 2000.

OTHER  
EXPERIENCES

Contributing science writer for the book *Categories on the Beauty of Physics. Essential Physics Concepts and Their Companions in Art & Literature*, New York: Vernacular Press, 2005.

FELLOWSHIPS  
AND AWARDS

Margaret and Herman Sokol Travel/Research Award for pre-doctoral Students in Sciences, New York University, 2002.

Meyer Fellowship, New York University, 1999.