

Curriculum vitae — Andreja Šarlah

Last name

Šarlah

First name

Andreja

Date and place of birth

January 26 1974; Ljubljana, Slovenia

Gender

Female

Marital status

Married, two children (2005, 2008)

Citizenship

Slovene

Address

University of Ljubljana
Department of Physics
Jadranska 19
SI-1000 Ljubljana
Slovenia, Europe

Home address

Celovška c. 189
SI-1000 Ljubljana
Slovenia, Europe

Telephone

work: +386 1 4766 697

fax: +386 1 2517 281

E-mail

`andreja.sarlah@fmf.uni-lj.si`

Homepage

<http://www.fiz.uni-lj.si/~andrejas/>

Knowledge of languages

- native Slovene
- English, German (active)
- Croatian, Spanish (basic)

Education

- 1992–1997: University of Ljubljana, Ljubljana, Slovenia. Bachelor of Science in Physics, May 1997.
- 1997–2001: University of Ljubljana, Ljubljana, Slovenia. Department of Physics, **Doctorate in Physics** (Ph.D.), October 2001. Thesis entitled “*Effect of the confining substrates on nematic order-fluctuations in liquid crystals*”.

Informal training: Spring College on “*Statistical Mechanics and Dynamics of Soft Condensed Matter*” (May 1998), International Centre for Theoretical Physics, Trieste, Italy

Research

- October 1997 – 2001: PhD student at Department of Physics, University of Ljubljana, Slovenia
- 2001 – 2003: teaching and research assistant at Department of Physics, University of Ljubljana, Slovenia
- 2001: fellowship within the MINOS project (European Commission Research Directorate – General F Human Potential and Mobility Programme), INFN, Bologna, Italy, [title of the project *Large scale simulations of confined nematic liquid crystals in frustrated planar geometry*]
- 2002-2003: research assistant at the Jožef Stefan Institute, Ljubljana, Slovenia (additional part-time job)
- 2003: guest scientist at the Hahn-Meitner Institut, Berlin, Germany
- 2003-2004: fellowship of the Alexander von Humboldt Foundation, Hahn-Meitner Institut, Berlin, Germany, [title of the project *Phase behavior of a 2D colloidal system under the influence of 2D periodic external potentials*]
- 2004 –: teaching and research assistant at Department of Physics, University of Ljubljana, Slovenia

Main research topics:

theory and modelling of structure and mechanism of protein motors;
critical phenomena in low-dimensional systems; colloidal systems; mean-field theory;
Monte Carlo simulations;
colloidal assemblies in liquid-crystalline membranes; interactions between colloidal particles in thin smectic films;
phenomenological theory of liquid crystals; collective fluctuations in confined nematic liquid crystals within the mean-field theory; theory of elasticity, and light scattering in liquid crystals;
van der Waals force between dielectrically anisotropic macroscopic bodies;

Research collaboration:

Istituto Nazionale di Fisica Nucleare, Sezione di Bologna, Bologna, Italy;
Dipartimento di Chimica Fisica e Inorganica, Università di Bologna, Bologna, Italy;
Ludwig-Maximilians Universität München, Arnold Sommerfeld Center for Theoretical Physics, München, Germany;

Teaching experience

- Department of Physics, Faculty of Mathematics and Physics, University of Ljubljana
 - Physics II [*Modern Physics*] (2001/02 — 2002/03)
 - Quantum Mechanics II (2006/07 — 2008/09)
 - Laboratory Class I (2002/03)
 - Theoretical physics (2001/02)
- Department of Mathematics, Faculty of Mathematics and Physics, University of Ljubljana
 - Physics (1998/99 — 2002/03, 2004/05 — 2006/07)
 - Classical physics (2001/02 — 2002/03, 2005/06 — 2007/08)
- Physics for non-physicists
 - Faculty for Chemistry and Chemical Technology, University of Ljubljana; Department of Chemistry (1997/98), Department for technical security (2008/09)
 - Faculty of natural sciences and engineering, University of Ljubljana; Department of textile studies (2001/02)
 - Biotechnical faculty, University of Ljubljana; Department of Food Science and Technology (2004/05), Department of Biology (2008/09)

Awards

France Prešeren Award (1998) for the Diploma thesis

Professional association membership

International Liquid Crystal Society

Programming experience

C++, Mathematica, L^AT_EX

Organizing experience

member of the organizing committee of the SILC Mini School, 2000, Portorož, Slovenia

Referees

- **prof. S. Žumer**
Dept. of Physics, Faculty of Mathematics and Physics
University of Ljubljana
Jadranska 19
SI-1000 Ljubljana
Slovenia
phone: +386 1 4766 592
fax: +386 1 2517 281
email: slobodan.zumer@fmf.uni-lj.si

- **prof. E. Frey**
Ludwig-Maximilians Universität München
Arnold Sommerfeld Center for Theoretical Physics
Theresienstr. 37
D-80333 München
Deutschland
phone: +49 89 2180 4538 (secretary)
fax: +49 89 2180 4154
email: erwin.frey@physik.lmu.de

- **prof. R. Podgornik**
Dept. of Physics, Faculty of Mathematics and Physics
University of Ljubljana
Jadranska 19
SI-1000 Ljubljana
Slovenia
phone: +386 1 4766 535
fax: +386 1 2517 281
email: rudi.podgornik@ijs.si

- **prof. M. Čopič**
Dept. of Physics, Faculty of Mathematics and Physics
University of Ljubljana
Jadranska 19
SI-1000 Ljubljana
Slovenia
phone: +386 1 4766 655
fax: +386 1 2517 281
email: martin.copic@ijs.si

Ljubljana, 2. 4. 2009

Dr. Andreja Šarlah