CV HIGHLIGHTS - PROF. DR. ANA-SUNČANA SMITH [www.puls.physik.fau.de]	
PERSONAL	Born: Croatia, 1975. Married, 3 children. Nationalities: Croatian, French
CURRENT EMPLOYMENT	 Oct. 20012 – W2 Professor at the I. Institut für Theoretische Physik, Universität Nürnberg-Erlangen, Germany, Nägelbachstrasse 49c, 91052 Erlangen PULS Group leader (3 PostDocs, 7 PhDs, 5 Masters students). Member of Executive Board of the EAM Cluster of Excellence (EAM) Member of the steering committee of the DFG RTG1862 Oct. 2013 – Senior Researcher at the Institute Ruđer Bošković, Zagreb, Croatia (part time)
SABBATICAL	WS 2015 Newton Institute of Physics, Cambridge UK
Post-Docs	 2006-2009/ – Research Associate, II. Institut für Theoretische Physik, Universität Stuttgart 2005-2006/ I. Institut für Theoretische Physik, Universität Nürnberg-Erlangen, Germany 2005/ School of Chemistry, University of Sydney, Australia.
PHD IN PHYSICS	2002-2004/ E22 Institut für Biophysik, TUM München. Supervisor: Prof. E. Sackmann. Thesis: "Modelling cell adhesion and its control mechanisms with a vesicle substrate system".
DIPLOMA IN PHYSICS	 2001/ University of Zagreb, Croatia. 1999/ Diploma work at the Department of Applied Mathematics, ANU, Canberra, Australia. Supervisor: Prof. S. Marčelja. Thesis: "Examination of New Aspects of the Hydrophobic Effect".
PUBLICATIONS (h-index=16)	41 papers (10 first, 19 last, 3 single author) on topics in biophysics, soft matter and statistical physics including one Nature Phys., one PNAS, one Adv. Mat, one Nature Comm. further 5 letters out of which 3 are PRLs, 4 full papers with cover pages, 3 reviews. Mostly combination of theoretical and experimental works.
DISSEMINATION	 46 (+11) invited (+contributed) lectures at international scientific conferences. 40 invited seminar talks at international research institutions. Conference organisation: Chair of PhysCell2009, PhysCell2012, PhysCell2015
TEACHING	 SoSe 2012, 13, 16 "Quantum Mechanics"; WiSe 2010, 11, 13, 14 – "Classical Field Theory" Elective courses and seminars in Theoretical and Computational Soft Matter and Biophysics
COLLABORATORS	R. Merkel (Jülich), U Rüde & D. Duzdiak (FAU Erlangen), S. Fenz (Würzburg), K. Sengupta (Marseille), S. J. Marrink (Groningen), D. Smith & D. Kralj (Zagreb), V. Sandoghdar (Erlangen), F. Rehfeld (Göttingen), S. Eggeling (Oxford), K. Gauss (Sydney), U. Seifert (Stuttgart)
SELECTED FUNDING	> 2013-2019 ERC Stg 337283 MEMBRANESACT (1.500,000 Euros)
(TOTAL~3 M€)	 2017-2019 Emerging Field Initiative Big Thera (80,000 Euros) 2013-2018 Cluster of Excellence – EAM, FAU, Erlangen, Germany (500,000 Euros) 2014-2019 DFG RTG1862 Processes on Biological Membranes (200,000 Euros)
RESEARCH TOPICS	 Materials sciences: Electrophoretic motion on nanoscale Solid-liquid interfaces, film formation (biomineralisation, ionic liquids, functional particles) Multiscale modelling of SILP catalysis (HI-ErN/EAM project) Statistical physics and biophysics of systems with reduced dimensionality Nonequilibrium stochastic dynamics of membranes and tissues Transport: diffusion on membranes, hydrodynamics and self-propulsion, relation to growth Adhesion and friction in the biological context: Effects of fluctuations, mechanosensing and
	transduction, coupling to signalling
METHODS	 Analytic and numerical modelling, commercial and in house developed simulation tools (Monte Carlo, Molecular Dynamics, Lattice Boltzmann, Langevin dynamics) Experimental data analysis, image processing
AWARDS	 2009 Rising Star of the Excellence Cluster EAM 2011 - Member of the Collegium of the Bavarian Academy of Sciences and Humanities. 2013 - ERC StG 337283 MembranesAct 2016 - Order of the Croatian Daystar for contributions to Croatian science
LANGUAGES	Fluent in English, Croatian and French, active knowledge of German