

# ANNA V. GUBSKAYA, PH.D.

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## OBJECTIVE

A leading research position in a computational group of a governmental institution or private company specializing in development of novel pharmaceuticals, biomedical products or/and biomaterials

## HIGHLIGHTS OF QUALIFICATIONS

- Successfully completed PhD's in both Chemistry and Physics & Mathematics
- Highly qualified in cross- and multidisciplinary research: theoretical and experimental
- Author and co-author of more than 30 scientific publications including peer-reviewed articles and book chapters
- Over 15 years of research experience in the field of Computational Chemistry
- Proficient in *ab initio*, molecular dynamics and molecular mechanics computer simulations and applications of self-learning algorithms
- Experienced in utilization of corresponding commercial and free-distributed simulation packages such as Gaussian, Cerius2, Materials Studio, Molecular Operating Environment (MOE), MacroModel, HyperChem, CHARMM, DL-POLY, MDynaMix, WEKA
- Proficient in the utilization of state of art professional, administrative and data-handling software for Unix, Linux, Windows and Macintosh operating systems
- Successful in working on and managing collaborative scientific projects of international recognition
- Excellent in finding the most efficient and original solutions for professional projects and providing accurate scientific results
- Proficient in examining and evaluating scientific results to corroborate information to be published
- Practiced in reviewing over 10 manuscripts for the high-rank scientific journals to ensure quality and correctness of materials submitted to publishers
- Involved in teaching chemistry courses with class sizes up to 90 students
- Adept at mentoring research of graduate/undergraduate students to provide an additional forum for professional learning

## EMPLOYMENT EXPERIENCE

### **Visiting Research Investigator**

College of Pharmacy, University of Michigan, Ann Arbor, MI, USA

2017

### **Adjunct Assistant Professor of Chemistry & Instructor**

*Dept. of Physics & Chemistry of Mount Saint Vincent University, Halifax, NS*

2009 – 2012

### **Research Associate & Post-doctoral Research Associate**

*Dept. of Mechanical and Aerospace Engineering, Rutgers University, Piscataway NJ*

*Dept. of Chemistry & Chemical Biology, Rutgers University, Piscataway, NJ*

2005 - 2008

**Post-doctoral Fellow***Department of Chemistry, Dalhousie University, Halifax, NS* 2003 - 2005**Graduate Assistant***Department of Chemistry, Dalhousie University, Halifax, NS* 1998 - 2003**Senior Research Associate***Special Engineering Bureau of B. Verkin Institute for Low Temperature Physics and Engineering, Kharkov, Ukraine* 1997 - 2001**EDUCATION****Doctor of Philosophy - Chemistry**, Dalhousie University, Halifax, NS 2000 - 2003**Master of Science - Chemistry**, Dalhousie University, Halifax, NS 1998 - 2000**Doctor of Philosophy – Physics & Mathematics**

B. Verkin Institute for Low Temperature Physics and Engineering (ILTPE) 1988 - 1993

Ukrainian National Academy of Science, Kharkov, Ukraine

**Master of Science (Bachelor of Science integrated) – Biophysics**

V. Karazin Kharkov National University, School of Radiophysics 1976 - 1981

Department of Molecular Biophysics, Kharkov, Ukraine

**University Diploma of Art Critic**

V. Karazin Kharkov National University, School of Community Professions 1978 - 1981

(3 year program), Kharkov, Ukraine

**ACHIEVEMENTS, GRANTS, AWARDS**Invited speaker at the 90<sup>th</sup> Canadian Chemistry Conference and Exhibition, Winnipeg, MN 2007

Invited visitor in Division of Physical Chemistry, Arrhenius Laboratory of Stockholm University, Stockholm, Sweden 2001

The academic rank of Senior Research Associate in Biophysics was awarded and certified by Higher Certifying Board of the Ukraine 1997

Ukrainian State Foundation for Fundamental Investigations – long term research grant (Principal Investigator) 1997

The North Atlantic Treaty Organization (NATO) – travel grant to participate in NATO ASI Summer School on Crystal Engineering, Digby, NS 1996

International Center for Theoretical Physics (ICTP), travel award to attend the 7<sup>th</sup> College on Biophysics: Structure and Function of Biopolymers, Trieste, Italy 1996

International Science Foundation (ISF) – long term research grant (U2J000) 1994

International Science Foundation (ISF) – long term research grant (U2J00) 1993

**PROFESSIONAL MEMBERSHIP****Member of American Chemical Society** 2004 - 2008**Member of Chemical Institute of Canada** 1999 - 2012**References Available Upon Request**