

Mgr. Tereza Uhlíková, Ph.D.

CONTACT INFORMATION	Department of Analytical Chemistry University of Chemistry and Technology Technická 5 166 28 Prague 6 Czech Republic	<i>E-mail:</i> tereza.uhlikova@vscht.cz
RESEARCH INTERESTS	Astrochemistry, radicals, quantum chemistry, properties of excited states of small molecules – lifetimes, vibronic coupling, spin-orbit coupling solid state chemistry properties of crystals – phonon vibrations, low energy vibration, intra- and intermolecular vibrations	
PERSONAL INFORMATION	Born name: Nationality: Resident of:	Šedivcová Czech Czech Republic
EDUCATION	Gymnázium Jaroslava Heyrovského – secondary school, Prague 13	1994–1998
	Charles University , Prague, Czech Republic – master degree <i>Faculty of Science, Department of Physical and Macromolecular chemistry</i> M. S., Physical Chemistry, Jun 2003 Diploma topic: “Theoretical study of molecular ions and their detection in interstellar matter” Advisors: Doc. RNDr. J. Fišer, CSc. and RNDr. S. Civiš, CSc.	1998–2003
	Charles University , Prague, Czech Republic – doctoral degree <i>Faculty of Science, Department of Physical and Macromolecular chemistry</i> Ph. D., Physical Chemistry, March 2007 Dissertation topic: “Properties of metastable states of small molecules” Advisor: Ing. Vladimír Špirko, DrSc.	2003–2007
COURSES	Astronomical courses <i>Planetárium Praha, CZE</i>	1997–1998
	Summer-school of Quantum Chemistry <i>Jaroslav Heyrovský Institute of Physical Chemistry, Academy of Sciences of the Czech Republic</i>	2001
	Astronomical and astrophysical lectures <i>Faculty of Mathematics and Physics, Charles University in Prague with practice on Ondřejov Observatory 2-meter Telescope</i>	2001–2003
	Theoretical Spectroscopy Lectures: theory and codes <i>CECAM, Lyon, France</i>	2007
	Basic techniques and tools for development and maintenance of atomic-scale software <i>CECAM, Lyon, France</i>	2008
PROFESSIONAL EXPERIENCE & ABROAD STAGE	Jaroslav Heyrovský Institute of Physical Chemistry Academy of Sciences of the Czech Republic (IPCh CAS), Prague, Czech Republic RNDr. Svatopluk Civiš, CSc.	July 2001 diploma thesis 2001–2003
	Analysis of astronomical spectra in order to identify C ₂ ⁻ in interstellar matter	
	Okayama University and Observatory Faculty of Science, Department of Chemistry, Okayama, Japan Prof. Kentarou Kawaguchi	November 2003
	Observation and processing of measured visible spectra of reddened stars in order to identify carbon chain as possible carrier of DIB's	

Bergische Universität

Faculty of Mathematics and Natural Sciences, Department of Theoretical Chemistry, Wuppertal,
Germany

September – December 2005

Prof. Per Jensen, Ph.D.

Introducing with MORBID program, calculating high excited rovibrational states of H₂O

Institute of Organic chemistry and Biochemistry

Academy of Sciences of the Czech Republic, Prague, Czech Republic

Feb. 2006 – Feb. 2007

Ing. Vladimír Špirko, DrSc

Metastable states and radiative association of diatomic dications

Universita' degli Studi di Milano

Physics Department, Milano, Italy

March 2007 – December 2008

Dott. Nicola Manini

Calculations of spectra of triatomic molecules using factorization approach

University of Chemistry and Technology, Prague

Laboratory of High Resolution Molecular Spectroscopy

January 2009 – present

Prof. Štěpán Urban

Calculation and analysis of microwave spectra of radicals

SKILLS

Languages: English (level C1), France (level B1)

Using program packages and languages: MOLPRO, MOLCAS, Gaussian, Cfour, MORBID

experience with C, Fortran, MatLab

Operating Systems: Linux, Windows

RESEARCH PROJECT Calculations and analyses of high resolution microwave spectra of species of atmospheric and astro-
physical interest **2009 – 2012**

Provider: Grand Agency of the Czech Republic