

CURRICULUM VITAE



Tonya Vitova

Date of Birth: 15th of December 1978

Place of Birth: Lyubimetz, Bulgaria

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Institute for Nuclear Waste Disposal

Hermann von Helmholtz Platz 1

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Professional experience and education

Since July 2011 Karlsruhe Institute of Technology Institute for Nuclear Waste Disposal
Faculty of Chemistry and Biosciences Karlsruhe Germany

- Leader of a Helmholtz Young Investigators Group: “Advanced synchrotron based systematic investigations of actinide and lanthanide systems to understand and predict their reactivity”
- Since December 2014: KIT Associate Fellow

January 2009 – June 2011 Karlsruhe Institute of Technology Institute for Nuclear Waste Disposal Karlsruhe Germany

- Research associate

January 2008-2009 Karlsruhe Institute of Technology Institute for Nuclear Waste Disposal Karlsruhe Germany

- Postdoctoral fellowship granted by ACTINET – A Network of Excellence for Actinide Sciences

February 2008 Doctoral degree (Dr. rer. Nat. magna cum laude)

- *Thesis:* “X-ray absorption spectroscopy investigation of structurally modified lithium niobate crystals”

October 2003-2007 Synchrotron Radiation Group Physics Institute Bonn Germany

- PhD project part of the German Research Association (DFG) project “Light Confinement and Control with Structured Dielectrics and Metals”

August 2003 Admission in Bonn International Graduate School

July 2003 Bachelor degree in Engineering Physics

- *Thesis:* "Investigation of defects in plasma sprayed coatings"

1998 – 2002 Physics Engineering Student University of Sofia Sofia Bulgaria

- *Specialization:* Microelectronics and Information technologies

1993 – 1998 Vocational school of Economics Kyustendil Bulgaria

Teaching experience

2 SWS SS 2012 & SS 2013 & WS 2014/2015 KIT, Faculty of Chemistry and Biosciences,
Lecture "Instrumental Analytics"

2 SWS WS 2011/2012 & WS 2012/2013 KIT, Faculty of Chemistry and Biosciences,
„Seminar zur Vorlesung Allgemeine und Anorganische Chemie (für Studierende des
Chemieingenieurwesens)“

Awards and fellowships

2008-2009 One year postdoctoral fellowship granted by ACTINET - A Network of
Excellence for Actinide Sciences

December 2011 Women in Nuclear-Germany Award

Third party funding

09.2010 Helmholtz Young Investigators Group grant funded with 1.3 M€ (07.2011 -
10.2016)

06.2012 Funding (200 k€) in the frame of "Förderung von Nachwuchsgruppen durch
investive Maßnahmen in 2012" Helmholtz Association of German Research Centers
(HGF) in collaboration with HYIG S. Stankov, KIT. Collaborative project: "Electronic,
thermal, and dynamic properties of epitaxial lanthanide (Ln) nanostructures from *in-situ*
temperature-dependent and high-resolution X-ray absorption/emission spectroscopy".

2013 Travel grant (~ 5 k€) as part of the Federal Ministry of Education and Research
(BMBF) joint research project: "Grundlegende Untersuchungen zur Entwicklung und
Optimierung von Prozessen zur Abtrennung langlebiger Radionuklide ". Collaboration with
the group of Prof. John Rehr, University of Washington, Seattle, is established.