

Anna Maria Fulterer

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Born on October 27, 1982, in Meran (BZ)
Italian Citizen

Employment

Scientific Project Assistant at the Institute of Theoretical and Computational Physics of the Graz University of Technology (TU Graz) in Austria, from 03/2007 to 02/2012

Description: I have developed new numerical techniques for the description of complex materials. I have accomplished a software to calculate material properties of high-Tc superconductors, I have tested it and used it for doing scientific research. Furthermore, I have published the results of my scientific research in my doctoral thesis and in a journal article and I have presented them at the workshop Korrelationstage Dresden 2011 (Germany) and the summer school of “Strongly correlated Electron Systems” 2009 in Les Houches (France).

Lecturer at the faculty of technical mathematics and technical physics of the TU Graz, from 03/2010 to 07/2010

Description: I planned and held the exercises about electromagnetic fields.

Guest at the Institute of Electronics of the Forschungszentrum Jülich (Germany), from 02/2006 to 11/2006

Description: I have developed a software that simulates high resolution positron emission tomography. I have tested it and applied it to investigate the impact of out field of view activity in PET. I have published the results in my diploma thesis and in a proceedings paper, and presented them at the conference “Remagener Physiktage” 2007 (Germany).

Collaborator at the Eurac Institute for Renewable Energy, Bozen (BZ), from 07/2005 to 09/2005

Description: I have developed a strategy for the assessment of photovoltaics at Bozen. I investigated the existing norms and standards, got informed on possible locations for a test plant and communicated with other companies and institutes about the necessary hardware.

Tutor for Electrodynamics at the TU Graz, from 03/2005 to 07/2005

Assistant at the Summer Kindergarden in Bozen, 07/2004

Tutor for Analytical Mechanics at the TU Graz, from 03/2004 to 07/2004

Student apprentice at the Fraunhofer Institute for Electron Beam and Plasma Technology Dresden (Germany), 07/2003 to 08/2003

Description: I made a feasibility study for a quality assurance system in a plasma coating plant: The task was to in-line measure the grade of cleanness achieved by different cleaning techniques for metal sheets to be plasma-coated. Moreover, I had the opportunity to make a lot of “hands-on” experience.

Student apprentice at the Max Planck Institute for Plasma Physics in Munich (Germany), 07/2002

Description: I developed software tools to process data from the fusion experiment. Moreover, I examined a method for counting photons based on PC, which was to be installed for permanent use at the research facility.

Education

Ph.D. in engineering sciences completed with distinction, at the TU Graz, 07/2012

Title of the thesis: “Competing Phases in High- T_c Superconductors: Variational Cluster Approach. From Equilibrium to Non-Equilibrium”,

Supervisor: Prof. Enrico Arrigoni.

Dipl. Ing. equiv M.A. Technical Physics completed with distinction at the TU Graz, 02/2007

supported by two merit scholarships by the TU Graz,

diploma thesis at FZ Jülich, supported by a scholarship by Zonta and the TU Graz

Title of the thesis: “Investigation on the Impact of Out Field of View Activity in High Resolution Positron Emission Tomography”

Supervisors: Dr. Simone Weber, Prof. Peter Kindl

Matura secondary school leaving exam with distinction, in Bozen (Italy), 07/2001

school year in Great Britain at the Bournemouth and Pool College of further Education, 09/1999 to 07/2000

with a scholarship of the region Trentino-Südtirol

achievements: Certificate in Advanced English

A-level in Sociology and Italian, AS-Level in Mathematics and Human Biology, 2000

Visit of the secondary school in German language in Bozen, 1988-2001.

Languages

Italian: very good

English: very good

German: mother tongue

IT skills

Microsoft, Windows, Office, Linux, Unix

programming: C++, C, Fortran, eclipse, subversion, matlab

calculation and simulation: matlab, mathematica, labview, IDL

Publications, Conferences and Further Education

Article: Correlation-induced Suppression of Bilayer Splitting in High- T_c Cuprates

a Variational Cluster Approach

Journal of Superconductivity and Novel Magnetism, 2012

Article: High T_c Superconductors in c -axis non-equilibrium. A numerical study using Variational Cluster Approach + Keldysh Formalism

to be published

Article: Scatter Analysis of the ClearPET Neuro using Monte Carlo Simulations,

Proc. Advances in Medical Engineering, 2007

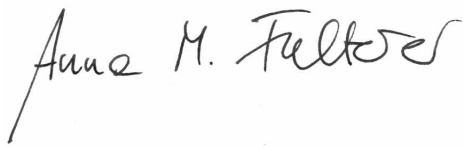
Participant at the workshop “Korrelationstage 2011”, Dresden (Germany), 2011

Participant at the “Career Program for Women in Science: competences, strategies, networks”, Graz, 2010

Participant at Les Houches Summer School on Strongly Correlated Systems (France), 2009

Speaker at the “Materials Day”, TU Graz, 2008

Participant at the conference “Remagener Physiktage” (Germany), 2007

A handwritten signature in black ink that reads "Anna M. Fulterer". The signature is written in a cursive style with a large initial 'A'.

Last updated: November 9, 2012