

Curriculum Vitae

Personal details	<ul style="list-style-type: none">▪ Born: 03.11.1979 r. in Katowice, Poland▪ Married, one child: Anna Gamza (born: 20.01.2002)
Professional experience	<ul style="list-style-type: none">▪ Lecturer in Physics, from 20 January 2015 Jeremiah Horrocks Institute, University of Central Lancashire, Preston, UK▪ Postdoctoral Research Assistant, 1 September 2013 – 19 January 2015 Department of Physics, Royal Holloway, University of London, Egham, UK Hosts: Dr Philipp Niklowitz, Dr Malte Grosche from Cavendish Laboratory Project title: “Fermi surface instabilities and quantum order at high pressure”▪ Research Associate in Physics, 8 September 2011 – 28 August 2013 Brookhaven National Laboratory, NY, USA Host: Prof. Meigan Aronson Projects: “Quantum criticality in iron-based Heusler compounds” “Electronic correlation effects in narrow gap insulator FeGa₃”▪ Max-Planck Society fellowship, 1 January 2011- 30 August 2011 and 14 February 2009- 30 June 2010: MPI for Chemical Physics of Solids in Dresden, Germany, Hosts: Prof. Yu. Grin, Dr. R. Gumeniuk, Dr. H. Rosner, Dr. W. Schnelle Project title: “Physics and chemistry of intermetallic compounds RE-T-Sn”▪ DAAD scholarship for young researchers, 1 July 2010- 31 December 2010: MPI for Chemical Physics of Solids in Dresden, Germany, Host: Prof. Yu. Grin Project title: “Valence transitions in Eu and Yb intermetallic compounds upon boron insertion probed by spectroscopy – a joined experimental and theoretical study”▪ Physicist, February 2009 – December 2011 (mostly on a scientific leave) Institute of Materials Science, University of Silesia in Katowice, Poland▪ Visiting Researcher, (together about 8 months in years 2005 – 2008): MPI for Chemical Physics of Solids in Dresden, Germany Host: Dr. H. Rosner, Prof. Yu. Grin Project title: “Electronic structure, thermodynamic and transport properties of intermetallic compounds RE-T-Sn”▪ Visiting Researcher, 21 February – 3 March 2005 Institute of Low Temperature and Structure Research PAS, Wrocław, Poland Topic: Preparation and measurements of thermodynamic properties of intermetallic compounds based on Ce▪ Programmer and data base tester in AltaSoft s. c., September 2004, February 2005▪ Training in programming in AltaSoft s. c., August 2004
Publications, talks and posters	<ul style="list-style-type: none">➤ Author or coauthor of 24 articles published in per-reviewed journals➤ 24 talks and 16 posters presented at 47 conferences, workshops and seminars (detailed list available on http://www.star.uclan.ac.uk/~mgamza/)
Scientific work topic	Synthesis, structural, magnetic, thermal and transport properties as well as electronic band structure of compounds containing rare-earth elements and/or transition metal elements.

Education

- Sept. 2018 Postgraduate Certificate in Teaching and Learning in HE, University of Central Lancashire, UK
- Feb. 2009 **Doctor of Philosophy in physics**, thesis entitled “**Experimental and theoretical study of electronic structure and the investigations of thermodynamic properties of the intermetallic compounds containing Ce and Rh**”, supervisor: Prof. dr hab. A. Ślebarski, **dissertation defended with honours**
- Oct. 2004 – Jan. 2009 **PhD studies in physics, specialization: solid state physics**, Institute of Physics, University of Silesia in Katowice, Poland
- June 2004 **Master of Arts in experimental physics**, thesis entitled “**Synthesis and investigation of electronic structure of the compounds containing Ce**”, supervisor: Prof. dr hab. A. Ślebarski, **dissertation defended with honours**
- Oct. 1998 – June 2004 **master studies in physics**, Faculty of Mathematics–Physics–Chemistry, University of Silesia in Katowice, Poland, **finished within 5% of the best graduates in 2003/2004**
- Oct. 2001 – 2005 “**second direction**” **studies in physics-informatics**, Faculty of Mathematics–Physics–Chemistry, University of Silesia in Katowice, Poland
- Sept. 1994 – May 1998 V Grammar school in Dąbrowa Górnicza, Poland, **finished with honours in a class with an extended german course**
- Sept. 1985 – June 1994 Primary School No 30 in Dąbrowa Górnicza, Poland, **finished with honours**

Grants

- **HE Infrastructure Fund, UCLAN, November 2018**
„Low temperature system for routine physical properties measurements and to support development of advanced experimental techniques”, principal investigator
- **Seed Corn Funding for Early Stage Researchers, 01.04.2017 - 31.07.2017**
„Theory-assisted search for novel itinerant magnets”, principal investigator
- **Learning and Teaching Development Grant, 01.04.2017 - 31.07.2017** „Learning by creating - embedding modern teaching strategies into Third Year Physics Laboratory module”, principal investigator
- **Grant No. RG150773 by the Royal Society, 14.03.2016 - 13.03.2017** „Large non-saturating magnetoresistance in a novel superconductor with highly tunable electronic properties, $\text{Ca}_{3+x}\text{Co}_4\text{Sn}_{13-y}$ ”, principal investigator
- **University Equipment Fund, April 2016**
„Controlled atmosphere synthesis kit to support Undergraduate and Postgraduate Teaching, Learning and Research”, one of two principal investigators
- **Grant No. N202 010 32/0487 of the Ministry of Science and Higher Education, Poland, 2007 – 2008**, principal investigator
- **Grant No. 1 PO3B 052 28 of the State Committee for Scientific Research (KBN), Poland, 2005 – 2007**, co-investigator

Scholarships	<ul style="list-style-type: none"> • Max-Planck Society Fellowship, January – August 2011 & January 2009 - June 2010, Max-Planck Institute for Chemical Physics of Solids, Dresden, Germany • DAAD scholarship for young researchers, July - December 2010, Max-Planck Institute for Chemical Physics of Solids in Dresden, Germany • Doctoral scholarship in academic years 2004/05, 2005/06, 2006/07 and 2007/08 University of Silesia, Katowice, Poland • Scientific scholarship as an award for academic achievements in years 1998/99, 1999/2000, 2000/01, 2001/02, 2002/03 and 2003/04 University of Silesia, Katowice, Poland • Scholarship of the city Dąbrowa Górnicza for the best students in the area of science in the summer semester of academic year 2003/2004 • Scholarship of the fund „Śląski Fundusz Stypendialny” in the summer semester of academic year 2003/2004 • Scholarship of the fund „Otwarty Zagłębiowski Fundusz Stypendialny” in the winter semester of academic year 2003/2004
Languages	<ul style="list-style-type: none"> ▪ Polish (mother tongue) ▪ English (fluent) ▪ German (working knowledge)
Memberships	<ul style="list-style-type: none"> ✓ Member of American Physical Society since 2012, No.: 61116138 ✓ Fellow of Higher Education Academy ✓ Member of the Institute of Physics (MInstP) since 2015 ✓ Member of Polish Physical Society since 2008
Examiner duties	<ul style="list-style-type: none"> ✓ External examiner for PhD degree of Dr Hong'En Tan, University of Cambridge, 29 Sept. 2018 ✓ Internal examiner for PhD degree of Dr Hamidreza Soltani, University of Central Lancashire, 13 July 2016 ✓ Internal referee for MSc by Research of Jack Hanson, University of Central Lancashire, 2018-2019