Curriculum Vitae - Mgr. Andrea Zemánková, PhD.

Personal Details

Name:	Andrea Zemánková
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Nationality:	Slovak
Date of Birth:	2nd July, 1979

Education

2002-2005   Mathematical Institute, Slovak Academy of Sciences; and Department of Mathematics and Descriptive Geometry STU
PhD in Applied Mathematics
Dissertation: *Special classes of triangular norms*.

1997-2002   Faculty of Mathematics Physics and Informatics UK, Bratislava
MSc (Mgr) in Mathematics
Thesis: *Triangular norms and their diagonal functions*.
Degree examinations: Mathematical Analysis; Insurance and Financial Mathematics; Basics of Pedagogy

Career History

2012-   Senior Researcher, Mathematical Institute, Slovak Academy of Sciences, Bratislava, Slovakia

2011-2012   Research Fellow, Trinity College Dublin, Ireland

2009-2010   Researcher, Mathematical Institute, Slovak Academy of Sciences, Bratislava, Slovakia (since 10.4.2009 Senior Researcher)

2007-2009   Research Assistant, Trinity College Dublin, Ireland

2005-2007   Researcher, Mathematical Institute, Slovak Academy of Sciences, Bratislava, Slovakia

Academic Achievements

- In 2014: **Visegrad Group Academies Young Researcher Award 2014**
- In 2013: **Program Fellowship of Slovak Academy of Sciences**
- In 2011: **Price of the President of Slovak Republic for young scientists**.
- In 2010**: AXA Research Fund Post-doctoral fellowship**
- In 2010: **Price of the Ministry of Education, Science, Research and Sport of Slovak Republic**.
- In 2008: *Competition of young researchers SAV (under 35 years)*: **2. price for I. science department.**
- In 2006: *Scientist of SR*: **honorary appreciation.**

Invited Lectures

- FSTA 2014, plenary lecture: **Advances in multi-polar aggregation**

Projects

- **VEGA 1/0006/19**   New trends in theory of aggregation and their applications (**Principal investigator for SAV)** (2019-2022)
- **APVV-16-0073**   Probabilistic, Algebraic and Quantum-Mechanical Aspects of Uncertainty (2017-2021)
- **Program Fellowship of Slovak Academy of Sciences** (2013-2015,2019-)
- **European Community's Seventh Framework Programme under Grant 607691 (SLANDAIL)** (2016-2017)
- **VEGA 2/0049/14**   Aggregation of inputs from multiple competitive and/or cooperative categories (**Principal investigator)** (2014-2017)
- **VEGA 2/0059/12**   Mathematical Models of quantum structures and uncertainty (2012-2015)
- **APVV-0178-11**   Uncertainty from point of view of probability, algebra, self-adjoint operators and quantum structures (2012-2015)
- **APVV-0073-10**   Aggregation functions as a tool for information processing (2011-2014)
- **VEGA 1/0080/10**   Information aggregation: models and applications (**Principal investigator for SAV**) (2010-2011)
- **Enterprise Ireland sponsored GRC Project** (EI Project code: CC-2011-2601B: GRCTC) (2011)
- **AXA Research Fund Post-doctoral fellowship** (2010)

- **VEGA 2/0032/09** Mathematical Models of quantum structures and uncertainty (2009-2011)
- **VEGA 2/7142/27** Algebraic structures and operations as a basis for many-valued logics (**Principal investigator**) (2007-2009)
- **APVV-0071-06** Probability and algebraic methods of uncertainty and quantum structures (2007-2010)
- **VEGA 2/6088/26** Mathematical Models of Quantum Structures (2006-2008)
- **APVT-20-046402** Elements of Uncertainty Modelling (2004-2006)
- **APVV-51-032002** Applications of Algebraic Methods in Problems of Uncertainty Modelling and Information Processing (2004-2006)
- **Project 42s2** in the framework of WTZ Austria-Slovakia: Triangular Norms (2004)
- **VEGA 2/3163/23** Mathematical Models of Quantum Structures (2003-2005)
- **COST Action 274** TARSKI - Theory and Application of Relational Systems as Knowledge Systems (2001-2005)
- **CEEPUS Network SK-42** Fuzzy Control and Fuzzy Logic (1995-2005)

Research visits

- **Trinity College Dublin**, Ireland 2012 (visiting scientist)
- **Trinity College Dublin**, Ireland 2011-2012 (AXA Research Fund Post-doctoral fellowship)
- **Trinity College Dublin**, Ireland 2007-2009 (visiting scientist)
- **University of Ostrava**, Ostrava, Czech Republic 2005 (one month, CEEPUS)
- **Johannes Kepler University**, Linz, Austria 2004 (one month)
- **Széchenyi István University**, Gyor, Hungary 2003 (one week, CEEPUS)
- **University of Alcalá**, Alcalá de Hénares, Spain 2003 (one month)
- **Johannes Kepler University**, Linz, Austria 1999-2003 (several shorter and longer visits, CEEPUS)

Teaching experiences

2007-2009 **Demonstrator for course of Fuzzy logic (**Department of Computer Science, Trinity College Dublin, Dublin 2, Ireland)

2009 **Demonstrator for course of Research methods** (Department of Computer Science, Trinity College Dublin, Dublin 2, Ireland)

2004-2006 **Demonstrator for course of Mathematics I and II** (Faculty of Management, Comenius University (FMUK), Odbojárov 10, P.O.BOX 95, 820 05 Bratislava, Slovakia)

2004-2006 **Lecturer for course of Mathematics I, II and III** (Európska vzdelávacia akadémia, n.o., Nobelova 16, 836 14 Bratislava, Slovakia)

2003 **Demonstrator for course of Mathematics** (Integrals and differential equations) (Faculty of Civil Engineering, Slovak University of Technology (STU), Radlinského 11, 810 05 Bratislava, Slovakia)

Other professional activities

- **Referee for** Fuzzy Sets and Systems**,** Information Sciences, Iranian Journal of Fuzzy Systems, IEEE Transactions on Fuzzy Systems, International Journal of Approximate Reasoning, Soft Computing, Kybernetika, Computers and Mathematics with Applications, Journal of Nonlinear Analysis, Journal of Aerospace Information Systems, Mathematica Slovaca. One Vega project reviewed.
- **Member of the program committee:** MDAI 2015, MDAI 2016, MDAI 2017, MDAI 2018, MDAI 2019, MDAI 2020, MDAI 2021, IFSA-EUSFLAT 2021