

Dr Aneta Sawikowska

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Born:

16th December 1980

Field of specialization:

linear algebra, applied statistics

Research interests:

matrix algebra, eigenvalue maximization, optimality of designs in statistical linear models, multivariate statistical methods, statistical analysis of data

Education:

2004 – 2009 Adam Mickiewicz University in Poznań, Poland
Degree: Doctor of Mathematical Science in the Area of Mathematics Ph.D thesis:
"Graphs with minimum eigenvalue for the number of vertices and edges"
supervisor: prof. Charles R. Johnson

1999 – 2004 Poznań University of Technology, Poland
Specialization: Mathematical Methods of Computer Science
Degree: Master of Science

Teaching activity:

2009 - 2010 The School of Humanities and Journalism, Poznań - classes: "Didactics of computer science II"
2009 - 2010 Higher School of Safety, Poznań - lectures: "Mathematics"
2006 - 2009 Adam Mickiewicz University in Poznań,
classes: "Numerical linear algebra", "Introduction to numerical methods",
"Numerical methods 1"
2005 – 2007 Poznań University College of Business - lectures and classes: "Mathematics",
"Computer science"
2004 – 2005 Tutoring center "Enigma" in Poznań - lectures and classes: "Mathematics",
"Mathematical analysis", "Algebra", "Statistics", "Logic", "Probability theory",
"Calculus", "Computer science", "Operations research", "Strength of materials"

Training abroad:

28.07.2008 – 31.08.2008 The College of William and Mary - Williamsburg (USA)
06.06.2005 – 29.07.2005 Participation in workshops "National Science Foundation Research Experiences For Undergraduates Program (REU)" at The College of William and Mary in Williamsburg (USA)

Research projects:

od 01.2010 Participation in the project "Biotechnological tools for breeding cereals with increased resistance to drought" (POLAPGEN-BD)

2005 – 2006

Participation in grant with Adam Mickiewicz University and Agricultural University of Poznań, entitled "On the A and D-optimality of complete designs under an interference model"

04.2004 – 11.2004

Taking part in a project at Poznań University of Technology about modeling of high buildings with continuous walls thickness;
working on numerical solution of nonlinear two-point boundary value problems

Co-operation:

- Institute of Bioorganic Chemistry PAS, Poznań
- The College of William and Mary, Williamsburg, USA
- Adam Mickiewicz University in Poznań
- Faculty of Agronomy, Poznań University of Life Sciences

Computer skills:

MATLAB - expert level
R - expert level
MAPLE - user level
GENSTAT - user level

Publications:

JOHNSON C. R., SAWIKOWSKA A. Graphs with Minimum Eigenvalue for the Number of Vertices and Edges, Discrete Mathematics, accepted

FILIPIAK K., RÓŻAŃSKI R., SAWIKOWSKA A., WOJTERA-TYRAKOWSKA D. (2008). On the E-optimality of complete designs under an interference model, Statistics and Probability Letters 78: 2470-2477