Christiaan E. van de Woestijne

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Personal

Christiaan Evert van de Woestijne
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The Netherlands

Tel.: +31 71 5727674
Born: 18-IX-1975
Dutch, single

Affiliation

Mathematical Institute, Universiteit Leiden
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Research interests

Number theory: finite fields, algorithms, some combinatorics.
Computer science: formal languages, natural language processing.

Education

Preparatory year at Evangelische Hogeschool, Amersfoort, 1992-1993
M.Sc. mathematics Leiden University, August 1998 (*cum laude*)
M.Sc. computer science Leiden University, August 1999 (*cum laude*)
Ph.D. mathematics Leiden University, thesis defense expected December 2005
(thesis advisor: Hendrik W. Lenstra, Jr.)
B.Mus. organ Rotterdam Conservatory, June 2005

Publications

B.M.M. de Weger and C.E. van de Woestijne. On the diameter of sets of almost powers. Acta Arith. XC.4 (1999), 371–385.
B.M.M. de Weger and C.E. van de Woestijne. On the power-free parts of consecutive integers. Acta Arith. XC.4 (1999), 387–395.
Christiaan van de Woestijne. Deterministic equation solving over finite fields. Proc. ISSAC 05, Beijing, China, ACM press (2005), 348–353.

Preprints

C.E. van de Woestijne. Deterministic equation solving over finite fields (preprint of Ph.D. thesis). December 2004.

Internal reports

C.E. van de Woestijne. A formal characterisation of the Delilah system (M.Sc. thesis). Leiden Institute for Advanced Comp. Sci., report 99-05, July 1999.

Conferences attended (selection)

- Journées Arithmétiques, Vatican, 1999
- Algorithmic Number Theory Symposium (ANTS) IV, Leiden, July 2000
- Special Semester on Algorithmic Number Theory, MSRI, Fall 2000
- Quadratic forms and related topics, LSU, Baton Rouge, March 2001
  (spoke on *A generalisation of the Gram-Schmidt algorithm*)
- Instructional conference on Algebraic groups, EPFL, Lausanne, May 2002
- Oberwolfach workshop on Explicit Methods in Number Theory, July 2003
  (spoke on *Deterministic equation solving over finite fields*)
- Workshop on Algorithmic Algebraic Number Theory, Institut Henri Poincaré, Paris, September 2003 (spoke on the same)
- Oberwolfach workshop on Finite Fields, December 2004
  (spoke on *An algorithm for solving* $\sum_{i=1}^{n} a_i x_i^n = b$ *over finite fields*)
- MAGMA workshop, Universität Göttingen, December 2004
  (gave a general introduction to MAGMA for a mathematical audience, as well as spoke on *Deterministic equation solving over finite fields*)

- Journées Arithmétiques, Marseille, 2005
  (spoke on *Deterministic equation solving over finite fields*)
- Workshop on Algebraic Methods in Cryptology, Beijing, China, July 2005
- ISSAC 2005, Beijing, China, 24–27 July 2005
  (spoke on *Deterministic equation solving over finite fields*)

Seminars

Participated in biweekly Dutch Intercity Number Theory Seminar, 1998-now. Spoke there 31-V-2002 (*Quadratic forms over finite fields*), 28-XI-2003 (*Solving equations over finite fields*).
Participated in local (Leiden) number theory seminar, 2001-2003.
Organized the sessions in Fall 2002 (on Algebraic Groups).

Teaching experience

Graded homework and taught discussion classes (1995-2003):
- basic programming skills, analysis of algorithms, computer organization
- math for chemists, basic algebra (theory of groups, rings, and fields)

Taught full lecture courses (1999-2004):
- discrete mathematics (Leiden, for Computer Science majors)
- uni- and multivariate calculus (Gouda, for Math. Ed. majors)
- basic projective geometry (Rotterdam, for Math. Ed. majors)

Computer skills

Unix, Dos, Windows, Office
C^{++}, Prolog, KASH, MAGMA, Maple
Implemented results of M.Sc. and Ph.D. theses in KASH

Language skills

Dutch, English, German, French (fluent), Italian (reasonable), classical Latin and Greek (reading skills).

Honours

First Prize, National Dutch Biology Olympiad, 1992
Bronze Medal, International Biology Olympiad, Poprad, Slovakia, 1992
Distinguished Student Author Award, ACM SigSAM, for presentation at ISSAC 2005, Beijing, China, July 2005

Scholarships

Assistent in Opleiding (paid graduate student), Universiteit Leiden, 1999-2003

Other interests

Basically all arts and sciences, but specifically:
- languages (and general linguistics)
- classical music (organ and chamber music, musicology)
- philosophy (specially philosophy of science)
- Christian theology
- cycling, cooking