

CURRICULUM VITAE

MUGUREL BARCĂU

- Education:**
- University of New Mexico, Ph.D. in Mathematics, June 2001.
 - Université de Paris-Sud XI, Orsay, France, D.E.A. in Algebraic Geometry, June 1993.
 - Universitatea București, B.A., 1993.

Publications: see List of Publications.

- Employment:**
- Institute of Mathematics of the Romanian Academy, Scientific Researcher III, 1993 - present.
 - Bucharest University of Economic Studies, Visiting Lecturer, 2015 - 2018.
 - University of Illinois at Urbana-Champaign, Visiting Assistant professor, 2004 - 2005.
 - University of Arizona, Visiting Assistant professor, 2001 - 2004.

- Teaching Experience:**
- Bucharest University of Economic Studies:
Linear Algebra.
 - Școala Normală Superioară București:
Introduction to Iwasawa Theory (with V. Pașol), Spring 2012 .
Introduction to Arithmetic Dynamics (with V. Pașol), Fall 2010.
 - University of Illinois at Urbana-Champaign:
Calculus II, Calculus III, Fundamental Mathematics.
 - University of Arizona:
Calculus I, II, Mathematics for Business Decisions, Linear Algebra and its Applications.
graduate courses: *Algebraic Coding Theory, Linear Algebra.*
 - University of New Mexico:
College Algebra, Trigonometry, Calculus I.

Research Interest: Algebraic Geometry
Number Theory
Cryptography

Talks: *Geometry of the affine line modulo isogeny*, AMS Annual Meeting in New Orleans, Special Session in Number Theory and Algebraic Geometry, January 2001.

The affine line modulo isogeny, Algebraic Geometry Seminar, Johns Hopkins University, invited by Prof. V. Shokurov, February 2001.

The affine line modulo isogeny, AMS Meeting in Las Vegas, Special Session in Number Theory, April 2001.

Siegel differential modular forms, AMS Meeting in Las Vegas, Special Session in Number Theory, (with A. Buium), April 2001.

Differential modular forms, Number Theory Seminar, University of Arizona, November 2001.

Differential modular forms, Illinois Number Theory Conference, University of Illinois at Urbana-Champaign, invited speaker, May 2004.

Quotients in δ -geometry and modular forms, Number Theory Seminar, University of Illinois at Urbana-Champaign, October 2004.

Modular Forms, Algebraic Geometry Seminar, IMAR, October 2005 - May 2006.

Mod p congruences for cusp forms of weight four for $\Gamma_0(pN)$, (with V. Paşol) ICTAMI, Alba Iulia, July 2011.

On a Key Exchange Protocol, (with V. Paşol, C. Pleşca, M. Togan) SecITC, Bucharest June 2017.

Grants: CNCSIS 1338/2007, *Dezvoltarea unor metode geometrice si aritmetice pentru studiul suprafeţelor eliptice*, (member of the team).

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Biographical: Born May 20th, 1969, Romania.