

LEILA BENFERHAT

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Research Interests

Elliptic curves, Polynomials over commutative rings, Analytic functions, Mahler measure and modeling.

Education

- 1988 **University of Sciences and Technology Houari Boumediene, Algiers (USTHB).**
Undergraduate Diploma in Mathematics, Specialty : Algebra
- 1988– 1992 **University of Sciences and Technology Houari Boumediene, Algiers (USTHB).**
Graduate degree in Mathematics, Specialty : Algebra and Number Theory
Magister, Specialty : Algebra and Number Theory
- 2010 **University of Sciences and Technology Houari Boumediene, Algiers (USTHB)**
Ph.D, Specialty : Algebra and Number Theory

Teaching Experience

- 1988– 2010 **Teaching (USTHB)**
Algebra, Analysis, Probabilities, Statistics
- 2010– 2021 **Teaching Master (USTHB).**: Elliptic curves and modular forms, Group theory, Algebra.

Head of Master : Arithmetic, Coding and Combinatory.
Supervision of 2 PhD theses defended in 2020 and 2021.
Supervision of 3 magisters defended in 2013, 2014 and 2016.
Supervision of 8 masters.

2021– 2023 **Teaching (ENSIA)**
Algebra, Linear Algebra.

Research Projects

2018– 2021 **Méthodes algébriques et modélisation.**
PRFU Project.
This project is part of applied mathematics such as cryptography, error-correcting code theory and modeling.

2022– 2024 **Algèbre et modèles mathématiques.**
PRFU Project.

Recent Publications

- 2021 Sur la variation de certaines suites de parties fractionnaires.
M. Balazard, L. Benferhat, M. Bouderbala.
Communications in Mathematics.
- 2020 Additive decomposition of polynomials over unique factorization domains.
Leila Benferhat, Safia Manar Elislam Benoumhani, Rachid Boumahdi.
Journal of Algebra and its Applications.
- 2017 Scorpionism in Sidi Okba, Algeria: a cross-sectional study of 2016 stung patients between 2014 and 2015.
S. Selmane, L. Benferhat, M. L'Hadj, H. Zhu.
- 2016 Modelling the scorpion stings using surveillance data in El Bayadh Province, Algeria.
S. Selmane, L. Benferhat, M. L'Hadj, H. Zhu.
Asian Pacific Journal of Tropical Disease.
- 2014 The Impact of Climate Variables on the Incidence of Scorpion Stings in Humans in M'Sila's Province in Algeria
Proceedings of the World Congress on Engineering 2014 Vol I, WCE 2014, July 2 - 4, 2014, London, U.K
www.iaeng.org/publication/WCE2014/