

## CURRICULUM VITAE

### **1. Identity**

Name, Surname: Bangerezako Gaspard

Date, place of birth: Rukere July 7, 1963

Nationality: Burundian

Profession: Professor of University

Place of living: Bujumbura, Burundi

### **2. Diplomas obtained.**

1999. PhD in Mathematics: Catholic University of Louvain, Faculty of Sciences, Department of Mathematics (Belgium).

1995. "Diplome d'Etudes Approfondies": Catholic University of Louvain, Faculty of Sciences, Department of Mathematics (Belgium).

1990. Master of Sciences: State University of Kharkov, Faculty of Mechanics and Mathematics, Department of Mathematics (Ukraine).

1983. Diploma of higher secondary school: College Notre Dame de Gitega (Burundi).

1976. Certificate of primary school: Athenee Primaire de Bujumbura (Burundi).

### **3. Professional experiences**

1990-1994. Assistant and Master Assistant: University of Burundi, Faculty of Sciences, Department of Mathematics.

1999-2007. Professor Charge de Cours: University of Burundi, Faculty of Sciences, Department of Mathematics.

2007-Now. Associate Professor: University of Burundi, Faculty of Sciences, Department of Mathematics.

### **4. Research Domain.**

Difference analysis and applications.

## 5. Publications

1. G. Bangerezako, J.P. Nuwacu, E.M. Shehata, q-Non uniform difference calculus and classical integral inequalities, *J. Int. Inequ. Appl.* (In press).
2. Gaspard Bangerezako, q- Nonuniform difference linear control systems , *J.A.A.* vol 20, Issue 2 (2014), 133-143.
3. Gaspard Bangerezako, q- Difference linear control systems , *J. Diff. Equ. Appl.* 17 (2011), No 9, 1229-1249.
4. Gaspard Bangerezako , An Introduction to q-difference equations, IMPA, Department of Mathematics, Seminaire de Mathematiques, Rapport no 354, (Louvain, 2008).
5. Gaspard Bangerezako , An Introduction to q-nonuniform difference equations, (Miramare, Trieste, Italy 2011).
6. G. Bangerezako, M. Foupouagnigni: The Laguerre Freud equations for the recurrence coefficients of the Laguerre-Hahn polynomials orthogonal on special non uniform lattices. *Syllabus Review* 2(2) (2011) 1-25797767 Feb 17 15:27 .
7. Gaspard Bangerezako: Variational calculus on q-nonuniform lattices, *J. Math. Anal. Appl.*, 306 (2005) 161-179.
8. Gaspard Bangerezako: Variational q-calculus. *J. Math. Anal. Appl.* 289 (2004), no. 2, 650-665.
9. G. Bangerezako, M.N. Hounkonnou: The factorization method for the general second-order q-difference equation and the Laguerre-Hahn polynomials on the general q-lattice. *J. Phys. A* 36 (2003), no. 3, 765-773.
10. G. Bangerezako, M.N. Hounkonnou: The transformation of polynomial eigenfunctions of linear second-order q-difference operators: a special case of q-Jacobi polynomials. *Contemporary problems in mathematical physics (Cotonou, 2001)*, 427-439, World Sci. Publishing, River Edge, NJ, 2002.
11. Gaspard Bangerezako: The fourth order difference equation for the Laguerre-Hahn polynomials orthogonal on special non-uniform lattices, *Ramanujan J.* 5 (2001), no. 2, 167-181.
12. G. Bangerezako, M.N. Hounkonnou: The transformation of polynomial eigenfunctions of linear second-order difference operators: a special case of Meixner polynomials. *J. Phys. A* 34 (2001), no. 28, 5653--5666.
13. G. Bangerezako, A.P. Magnus: The factorization method for the semi-classical polynomials, *Self-similar systems (Dubna, 1998)*, 295-300, Joint Inst. Nuclear Res., Dubna, 1999.
14. Gaspard Bangerezako : The factorization method for the Askey-Wilson polynomials. *J. Comp. Appl. Math.* 107 (1999), no. 2, 219-232.

15. Gaspard Bangerezako: Discrete Darboux transformation for discrete polynomials of hypergeometric type, J. Phys. A 31 (1998), no. 9, 2191-2196.

16. Gaspard Bangerezako: Discrete factorization techniques for orthogonal polynomials on lattices, PhD Thesis, UCL September 1999.

## **6. International grants.**

-August 1984-June 1990, Master studies in Kharkov State University (USSR grant).

-October 1994-June 1995, Master Studies in UCL, Belgium (AGCD grant).

-October 1995-September 1999, PhD Studies in UCL, Belgium (AGCD grant).

-August 1998: International workshop on "Self-similar systems", Dubna, Russia (AGCD grant).

-July-September 2001, Research Stay in ICTP, Trieste, Italy (ICTP grant).

-August 2002, Seminar on Functional Analysis, IMSP, Porto-Novo, Benin (IMSP grant).

-August-October 2003, Research Stay in ICTP, Trieste, Italy (ICTP grant).

-February-March 2005, Research Stay UCL, Louvain, Belgium (CUD grant) .

-May-June 2009, "Regular Associate", ICTP, Trieste, Italy (ICTP grant).

-May-June 2011, "Regular Associate", ICTP, Trieste, Italy (ICTP grant).

## **7. Organizations membership.**

2008-2013: "Regular Associate" of the "International Centre for Theoretical Physics", Trieste, Italy.

2016-Now: "Ordinary member" of the "Burundian Academy of Sciences and Technology", Bujumbura, Burundi.

**Prof. BANGEREZAKO Gaspard.-**