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Hassane Kone

Research Interests: Analytical inequalities, Integral geometry, Information theory, Machine learning.

Education

2011–2015 **Ph.D. in Mathematics**, *Tandon School of Engineering*, New York University, New York, New York.
Dissertation Topic: Orlicz moment-entropy-information Inequalities, parameterized Black-Scholes and (x^2, λ)-Gaussian stock pricing model
Advisors: Erwin Lutwak, Deane Yang, Gaoyong Zhang

2008–2010 **M.S. in Mathematics**, *Courant Institute*, New York University, New York, New York.
Thesis topic: Type and reflexivity of Banach spaces
Advisors: Assaf Naor

2008–2010 **M.S. in Mathematics**, *Polytechnic Institute*, New York University, New York, New York.
Thesis topic: Hilbert Bases and Kernel of Matrices
Advisors: Franziska Berger
Minor: Physics

Teaching

Fall '17–Now **Adjunct Instructor**, *Tandon School of Engineering, Dept. of Technology Management and Innovation*, Brooklyn, New York.
Machine learning, Business Analytics, Calculus for Business.

Sum '15–Now **Adjunct Instructor**, *Tandon School of Engineering, Courant Institute of Mathematical Sciences*, Brooklyn, New York.
Webassign management, Recitations, The Math Resource Center.

Fall '08–Now **Adjunct Assistant Professor**, *CUNY: Hunter College, Brooklyn College, LaGuardia CC*, New York, New York.
Calculus, Math for Economics, Elementary Statistics, College Algebra.

Fall '17–Spring '18 **Adjunct Instructor**, *Fordham University*, New York, New York.
Finite Mathematics.

Fall '16–Spring '18 **Adjunct Professor**, *Cooper Union*, New York, New York.
Linear Algebra, Calculus II, Ordinary & partial differential Equations.

Fall '08–Sum '11 **Adjunct Instructor**, *Polytechnic Institute of NYU*, New York, New York.
PreCalculus, Calculus, Linear Algebra.

Technical skills

Programming Python, R, C++, Matlab, Maple, SQL, Javascript
Data Sci., ML, A.I. Numpy, Pandas, Matplotlib, Scikit-Learn, etc.

Publications

2019 L_p-*mixed entropies and* $L_{p,q}$-*moment-entropy inequality* , Submitted.

—   *A short proof of Orlicz-Sobolev Inequality*, Advances in Applied Mathematics, To appear.

2014   *Valuations on Orlicz spaces and* $\mathbf{L}^{\phi}$-*star sets*, Advances in Applied Mathematics, vol. 52(2014), 82-98.

Professional Travel

Apr 16-20 2012   **Workshop on Convexity and Asymptotic Geometric Analysis**, *CRM, Université de Montreal, Montreal (Quebec) Canada.*

Aug 22-26 2011   **Workshop on Introduction to Quantitative Geometry**, *Mathematical Sciences Research Institute (MSRI), Berkeley, USA.*

Honors & Awards

Spring 2015   **George Bachman Award**, Tandon School of Engineering, NYU, New York.

Spring 2015   **Excellence in Recognition of support for STEP** – Barnard College.

Fall 2014   **Excellence in Recognition of support for STEP** – Barnard College.

Spring 2011   **Williams R. Allen award**,Tandon School of Engineering, NYU, New York.

Spring 2008   **Williams R. Allen award**, Tandon School of Engineering, NYU, New York.

Languages

Bilingual   English & French

Professional Membership

Society for Industrial and Applied Mathematics (S.I.A.M)