Konstantinos Vamvourellis

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Education

The Graduate Center, CUNY — **New York**
Ph.D. Computer Science, Currently in Year 1 — *2013–present*

The Courant Institute, NYU — **New York**
Master's in Mathematics, GPA − 3.710 — *2013*
Focused Coursework: Finance, Algorithms, Stochastic Calculus

Imperial College London — **London**
MSCi Mathematics, Upper Second Division — *2011*

Relevant Research Experience

Mathematical Modelling: — University of Oxford

Conducted extensive computational experiments to unlock the mysteries of fluid behaviour in curved arteries. Enhanced the model to account for curvature as well as tapering of the artery.

Sharing Secrets Safely: — NYU

Used advanced algebraic techniques to create a practical solution for combining digital signatures. With our scheme different users combine their personal keys to create a new signature without learning each other's secrets.

Cloud Computing... lock it and keep the key: — NYU

Investigated the state of the art for storage on the cloud and presented an innovative solution that allows the user to store his data on the cloud and keep the key.

Teaching Experience

Algebra and Calculus MATH-UA009: — NYU 2013

ADJUNCT INSTRUCTOR Administrated and taught math classes of 35+ undergraduate students of NYU. Facilitated exams and grading for a body of 200+ students of NYU.

Graduate Linear Algebra MATH-GA.2110.1: — NYU 2012

GRADER

Additional Work Experience

NYU Office of Residential Life and Housing Services — **New York**
Graduate Resident Assistant, Awarded Best Grad RA of the Year — *2012-13*

NYU Resource Center at Washington Square Village — **New York**
Office Junior Administrator — *2011-13*

Philosophy Society, Student Organizations at Imperial College — **London**
General Secretary — *2009-11*

Lilian Baylis Technology School — **London**
Teaching Associate — *2008*

Selected Awards & Publications

○ Research Fellowship Award ($ 50,000)-*The Research Foundation* • Tuition Scholarship ($ 70,000)-*The Graduate Center* • UROP Funding Award ($ 3,000)-*Imperial College London* • Science Olympiad (Bronze Medal)-*European Union*

○ Algebraic (Trapdoor) One-Way Functions and their Applications *D. Catalano, D. Fiore, R. Gennaro and K. Vamvourellis* In the Proceedings of the 10th Theory of Cryptography Conference -TCC 2013, Tokyo, Japan. March

Skills

Currently working on: PYTHON, C, Java, HTML, Haskell

Advanced Programming: LaTeX, MS Office (Certification of Cambridge University), Mathematica, Matlab

Languages: Greek(Mothertongue), English(fluent), French (Intermediate), Spanish and Russian (Beginner)