

# ELLI ANDROULAKI

Computer Science Building 521, Columbia University

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## Education

- **Columbia University, Fu Foundation School of Engineering & Applied Science, New York, NY**  
PhD candidate in Computer Science with specialization in Network Security September '05-present  
Advisor: Professor Steven Bellovin  
MSc Degree in Computer Science **GPA: 4.10/4.00** May '07  
**Relevant Courses:** Network Security, Anonymity-Privacy, Introduction to Cryptography, Analysis of Algorithms, Intrusion Detection Systems, Introduction to Computer Security
- **National Technical University of Athens, Athens, Greece** September '00-June '05  
Diploma in Electrical and Computer Engineering **GPA: 9.38/10.00**  
Ranked 3<sup>rd</sup> among 450 students  
**Relevant Courses:** Data Structures, Data Bases, Advanced Data Bases, Software Engineering, Algorithms and Complexity, Network Programming

## Academic Honors

- Greek State Scholarship's Foundation Award for graduating at the top 1% of my class
- Greek State Scholarship's Foundation Best Student Award 2001, 2002

## Work Experience

- **Columbia University, Fu Foundation School of Engineering & Applied Science, New York, NY**  
**Research Assistant** June '06-present
  - Coauthored a position paper on "Cybersecurity through an Identity Management System", published in proceedings of EDF '09.
  - Coauthored a technical report and paper on "An Anonymous Credit Card System", published in proceedings of TrustBus'09. Worked on the design and mathematical proof of security of the credit card system proposed.
  - Coauthored a paper on "Anonymous Physical Object Delivery (APOD)", published in proceedings of PETS '09. Worked on the protocol design of the system proposed.
  - Coauthored a technical report and paper on "PAR: Payment for Anonymous Routing", published in proceedings of PETS '08. Worked on the design, mathematical proof of security and the implementation of the PAR system.
  - Coauthored a technical report and paper on "A Reputation System for Anonymous Networks", published in proceedings of PETS '08. Focused on the design and proof of this innovating reputation system's security.
  - Coauthored a technical report and paper on "Data-Driven Malware Detection within Microsoft Word Documents". Performed experiments on specially simulated environments to detect documents carrying various worms. Method implemented identified malicious documents with 100% success.
  - Implemented a part of a Firefox extension that enables application-level cryptographic protection for web content.
- **Teaching Assistant**
  - Network Security September–December '06, June-August '07, January-May '08
  - Computer Architecture and Engineering January-May '07
- **Google INC, Mountain View, CA/ Zurich, SW**  
**Software Engineer** May-August '07, May-August '08
  - Worked with the Ad-Spam team for developing Click-Fraud detection techniques.
- **Delta Singular, Athens, Greece**  
**Part time Web Developer** October-December '04
  - Assisted in the construction of the official website of the Athens 2004 Olympic Games.

## Extracurricular Activities

- **Columbia University Hellenic Association, New York, NY**  
Vice President September '07-September '08
- **Board of European Students of Technology, Athens, Greece**  
Member of the Board January '03-May '04

## Skills

Language Skills: Native in Greek, Fluent in English, Conversant in German  
Programming Skills: Java, JavaScript, C, HTML, XML