

DOHMATOB Elvis Dopgima

Research Engineer

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📄 <https://github.com/dohmatob>

Education

- 2010-2011 **MSc. in Cryptology and Information Security**, *University of Bordeaux 1*.
Pentesting for telecom and VoIP-like protocols including SS7, SIGTRAN, SIP, GTP, etc.
- 2009-2010 **Maîtrise ès Mathématiques**, *University of Bordeaux 1*.
On the explicit construction of some LDPC QECCs (*Low-Density Parity-Check Quantum Error-Correcting Codes*). Supervised by Gilles ZEMOR
- 2005-2008 **BSc. in Mathematics and Computer Science**, *University of Buea, Cameroon*.

Professional Experience

- October 2012 - **Research engineer**, *PARIETAL Team - INRIA, Neurospin CEA, Saclay*.
present Non-smooth convex optimization; preprocessing and statistical analysis of fMRI data; registration algorithms; machine learning on fMRI data.
- September 2011 - **Freelancer and Open-Source**, *Various employers*.
October 2012 Simulations for CR (Cognitive Radio) research; Windows system programming (DLLs, user-space root-kits, etc.); implementation of Machine Learning algorithms
- March 2011 - **Cryptology and Security intern**, *P1 Security*, Paris, France.
August 2011 Implementation of an event-driven pentesting framework for telecom and VoIP-like protocols

IT and Computing Skills

- Languages Python, ASM x86, C/C++, MATLAB, R, PARI/GP, javascript
- Maching Learning LibSVM, scikit-learn, pandas
- Code Engineering OOP, TDD, EDD, version control (git, github), CI (travis), parallel computing
- Neuro-imaging nilearn, SPM, FSL, nipy, nipy, freesurfer, mayavi, pypreprocess
- Operating Systems Linux, Windows (including shell scripting and system programming skills)
- Network Protocols TCP/IP, SMB, IPSec, LDAP, SSL, SIP, DNS
- Cryptology Number Theory, Elliptic Curves, Smart Cards, Asymmetric Cryptography (RSA), Symmetric Cryptography (PKI, DH, DES, AES)
- Security Snort, Nmap, METASPLOIT, OllyDbg, Immunity Debugger, IDA Pro, SPIKE

Publications

- MICCAI 2013 *Extracting brain regions from rest fMRI with Total-Variation constrained dictionary learning* (with A. Abraham, B. THIRION, D. SAMARAS and G. VAROQUAUX)

Languages

- Bilingual English (fluent), French (fluent)

Scholarships

- 2009 - 2011 Erasmus Mundus, University of Bordeaux 1

Interests

- Research Machine learning, optimization, image registration, stochastics and statistics, cryptology
- Hobbies Reading, dancing, running