Isaac Kamga

M.Sc. Computer Science

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https://github.com/Izakey

Education

2010 – 2015 **MSc. Computer Science**, *University of Buea, Cameroon.*.
Implementing a heart-shaped primitive in BRL-CAD

2009 – 2010 **Part-Qualified Accountant**, *The Association of Certified Chartered Accountants*, Glasgow, United kingdom.
Accountant In Business(F_1), Management Accounting(F_2), Financial Accounting(F_3), Corporate And Business Law(F_4) & Performance Management(F_5)

2005 – 2008 **BSc. Mathematics and Computer Science**, *University of Buea, Cameroon.*.
Magna Cum Laude

Professional Experience

Oct 2012 – Oct 2014 **Research engineer**, *PARIETAL – INRIA, Neurospin CEA, Saclay*.
Non-smooth convex optimization; preprocessing and statistical analysis of fMRI data; registration algorithms; machine learning on fMRI data; software engineering

Sep 2011 – Oct 2012 **Freelancer and Open-Source**, *Various employers*.
Simulations for CR (Cognitive Radio) research; Windows system programming (DLLs, user-space root-kits, etc.); implementation of Machine Learning algorithms

Mar 2011 – Aug 2011 **Cryptology and Security intern**, *P1 Security*, Paris, France.
Implementation of an event-driven pentesting framework for telecom and VoIP-like protocols

Computing Skills

Programming Languages	C/C++, Javascript, LaTeX
Software Engineering	OOP, TDD, EDD, version control (git, github, bitbucket), continuous integration (travis)
Operating Systems	Linux, Windows (plus shell scripting & system programming skills)
Github profile	https://github.com/Izakey

Scientific Publications (see complete google scholar)

2014
- A. ABRAHAM, E. DOHMATOB, B. THIRION, D. SAMARAS, G. VAROQUAUX, "*Region segmentation for sparse decompositions: better brain parcellations from rest fMRI*". http://stmi2014.ece.cornell.edu/papers/STMI-P-9.pdf
- B. THIRION, G. Varoquaux, E. DOHMATOB, J.-B. POLINE, "*Which fMRI clustering gives good brain parcellations?*". Frontiers in Neuroinformatics. http://journal.frontiersin.org/Journal/10.3389/fnins.2014.00167/abstract
- E. DOHMATOB, A. Gramfort, B. THIRION, G. Varoquaux "*Benchmarking solvers for TV-ℓ_1 least-squares and logistic regression in brain imaging*". Pattern Recoginition in Neuroimaging (PRNI), *IEEE*. http://hal.inria.fr/hal-00991743

2013 ○ A. ABRAHAM, E. DOHMATOB, B. THIRION, D. SAMARAS, and G. VAROQUAUX, "*Extracting brain regions from rest fMRI with Total-Variation constrained dictionary learning*". MICCAI - 16th International Conference on Medical Image Computing and Computer Assisted Intervention - 2013 (2013). http://hal.inria.fr/hal-00853242

Contributions to open-source software projects

Neuro-Imaging nipy http://nipy.org, nilearn http://nilearn.github.io, pypreprocess https://github.com/neurospin/pypreprocess

Personal projects See complete list on my github profile: https://github.com/dohmatob

Scientific Talks

PRNI 2014 At the PRNI (Pattern Recoginition in Neuroimaging) conference that took place 3rd – 6th June 2014 (Max-Planck Institute for Intelligent Systems, Tuebingen – Germany), I presented my work, "*Benchmarking solvers for TV-ℓ_1 least-squares and logistic regression in brain imaging*" (http://hal.inria.fr/hal-00991743).

Forum STIC 2014 Poster presentation for PRNI2014 paper at STIC, Paris-Saclay, France.

OHBM 2015 Oral + poster presentation on"*SpaceNet: Multivariate brain decoding and segmentation*", Honolulu, Hawaii, USA

PRNI 2015 Oral presentation on"*Speeding-up model selection in GraphNet via early-stopping and feature-screening*", Stanfod, USA

Hackathon Experience

Google Hash Code Paris, 2014 Implementation of street-viewer for Paris. Problem can be modelled as a TSP.

Brainhack Paris, 23rd – 26th Oct 2013 Group analysis on Henson's multi-modal faces vs objects dataset.

Languages

Bilingual English (fluent), French (fluent)

Awards and Scholarships

2014 Honourable Mention (2nd price) awarded to the paper "*Benchmarking solvers for TV-ℓ_1 least-squares and logistic regression in brain imaging*", by E. DOHMATOB, A. GRAMFORT, B. THIRION, G. VAROQUAUX (http://hal.inria.fr/hal-00991743), presented at the 4th international workshop on Pattern Recognition in NeuroImaging (PRNI 2014), Max-Planck Institute for Intelligent Systems, Tuebingen – Germany

2009 - 2011 Erasmus Mundus, ALGANT, University of Bordeaux 1

Interests

Research convex optimization, nonlinear registration, machine learning, human connectome mapping, game theory

Hobbies Reading, dancing, running