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Adrian Dalca

Education

MASSACHUSSETS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MA

PhD, Candidate, Electrical Engineering and Computer Science. GPA 5.0/5.0 — 2016

S.M., Electrical Engineering and Computer Science. GPA: 5.0/5.0 — 2012

UNIVERSITY OF TORONTO, CANADA

M.Sc., Department of Computer Science. GPA: 4.0/4.0 — 2010

Hon. B.Sc., High Dist. Department of Computer Science. GPA: 3.98/4.0 — 2008

Experience

RESEARCH ASSISTANT, MEDICAL VISION GROUP, MIT — 2010 - Current

Joint modeling of genetic effects on imaging phenotypes

Analysis of large scale datasets: application to stroke

Segmentation of nerve bundles and ganglia in spinal MRI via particle filters

RESEARCH ASSISTANT, COMPUTATIONAL BIOLOGY GROUP, MIT — 2009

Modeling small RNAs on chromatin signatures in human ES cells

RESEARCH ASSISTANT, COMPUTATIONAL BIOLOGY LAB, U. TORONTO — 2006 - 2009

Variation detection and analysis on High Throughput Sequencing platforms

Accurate mapping on multiple sequencing platforms

Sequence alignment with flexible scoring schemes

TEACHING ASSISTANT, U. TORONTO — 2008 - 2009

Software Design (CSC 207)

Computer Science for the Sciences (CSC120)

RESEARCH ASSISTANT, GEOPHYSICS LAB, U. TORONTO — 2007 - 2008

Theory of sea-level change including sediment transport

Publications

Nine first-author and six co-author refereed publications, with oral and poster presentations

Detailed list available on website or on request

Recent Awards or Scholarships

Advanced Multimodal Neuroimaging Training Program (NIH), 2014-2015

Hewlett Packard Full Fellowship (EECS), 2013-2014

NSERC Alexander Graham Bell Canada Graduate Scholarship (CGS-D2), 2012-2014

Technical Skills

Proficient with MATLAB, Python, C++, Java, SQL, javascript, PHP, HTML, CSS and LATEX

Experience in Linux, Windows, Mac OS

Activities

MIT SITECOR Surgeon Shadowing Program, EEC information officer and web developer.
U. Toronto Teaching Assistant for Software Design (CSC 207) and Computer Science for the Sciences (CSC120). DCS Ambassador, Volunteer, FLC Peer Mentor, Romanian Students Club president, vice-president and web developer.