

# Kieran O'Neill

koneill@bcgsc.ca | oneillkza.net

## Currently

Postdoctoral Fellow, Karsan Lab, Michael Smith Genome Sciences Centre, Vancouver, Canada

## Education

2014 **Ph.D. (Bioinformatics)** University of British Columbia, Vancouver, Canada

2008 **M.Sc. (Computer Science)** University of KwaZulu-Natal, Pietermaritzburg, South Africa

- Research undertaken at National Bioinformatics Institute, Cape Town
- Internship at European Bioinformatics Institute, Hinxton, UK

2004 **B.Sc.(Hons)**, University of KwaZulu-Natal, Pietermaritzburg, South Africa

- *Cum Laude*
- Dean's commendations for 7/10 semesters attended.
- Certificates of Merit (top in class) 14/43 modules completed.

## Awards

2015 Postdoctoral Fellowship, Michael Smith Foundation for Health Research  
Poster Prize, *ISMB 2015*

2012 Student Travel Award, *CYTO 2012*

2005 Prestigious Masters Award, *National Research Foundation* (South Africa)

2004 Special Honours Award, *National Research Foundation* (South Africa)

## First Author Publications

### Research Articles

2015 Deep profiling of multitube flow cytometry data, *Bioinformatics*

2014 Enhanced flowType/RchyOptimyx: a Bioconductor pipeline for discovery in high-dimensional cytometry data, *Bioinformatics*

2008 OntoDas - a tool for facilitating the construction of complex queries to the Gene Ontology, *BMC Bioinformatics*

### Commentary/Reviews

2016 Publishing code is essential for reproducible flow cytometry bioinformatics, *Cytometry A*

2013 Flow Cytometry Bioinformatics, *PLoS Computational Biology*

## Co-authored Publications

2016 MiR-139-5p is a potent tumor suppressor in adult acute myeloid leukemia, *Blood Cancer Journal*

2013 Critical assessment of automated flow cytometry data analysis techniques, *Nature Methods*

BAIT: Organizing genomes and mapping rearrangements in single cells, *Genome Medicine*

2012 RchyOptimyx: Cellular hierarchy optimization for flow cytometry, *Cytometry A*

Early immunologic correlates of HIV protection can be identified from computational analysis of complex multivariate T-cell flow cytometry assays, *Bioinformatics*

2010 Developing Ontologies within Decentralised Settings, *Semantic e-Science*

2008 Dasty2, an Ajax protein DAS client, *Bioinformatics*

## Scientific Software

2016 ContiBAIT

2013 flowBin

BAIT

2011 flowType

2008 OntoDAS

## Experience

2010 **Scientific Technical Advisor**, *Twentieth Century Fox*, Vancouver, Canada

- Advised on the set of Rise of the Planet of the Apes

2008 **Web Developer**, *ReportLab*, London, UK

2001 **Gap Year**, *Various Positions*, London, UK