

# Tyler Funnell

Vancouver, Canada

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## EDUCATION

- Since 2015 **PhD Candidate Bioinformatics**  
University of British Columbia
- 2011–2014 **MSc Bioinformatics**  
University of British Columbia
- 2004–2009 **BSc Computer Science**  
University of Northern British Columbia  
GPA 3.99
- 2007–2008 **Certificate Japanese Studies**  
Osaka International University  
Graduated top of class

## PUBLICATIONS

**Funnell, T.**, Zhang, A., Shiah, Y.-J., Grewal, D., Lesurf, R., McKinney, S., Bashashati, A., *et al.* Integrated single-nucleotide and structural variation signatures of DNA-repair deficient human cancers. *bioRxiv*. doi:[10.1101/267500](https://doi.org/10.1101/267500) (2018).

**Funnell, T.**, Tasaki, S., Oloumi, A., Araki, S., Kong, E., Yap, D., Nakayama, Y., *et al.* CLK-dependent exon recognition and conjoined gene formation revealed with a novel small molecule inhibitor. *Nature Communications* **8**, 7 (2017).

Zhang, A. W., McPherson, A., Milne, K., Kroeger, D. R., Hamilton, P. T., Miranda, A., **Funnell, T.**, *et al.* The interface of malignant and immunologic clonal dynamics in high-grade serous ovarian cancer. *submitted to Cell* **CELL-D-17-02291** (2017).

Ding, J., McConechy, M. K., Horlings, H. M., Ha, G., Chun Chan, F., **Funnell, T.**, Mullaly, S. C., *et al.* Systematic analysis of somatic mutations impacting gene expression in 12 tumour types. *Nature Communications* **6**, 8554 EP - (Oct. 2015).

## EXPERIENCE

Since 2015 **PhD Student**

Shah Lab, BCCRC, Vancouver, Canada

- Studying methods for mutation signature extraction.

2012–2014 **MSc Student**

Shah Lab, BCCRC, Vancouver, Canada

- Studied regulation of mRNA processing.

2012–2014 **Bioinformatics Graduate Program Student Mentor**

Vancouver, Canada

- Provided academic and other advice to incoming bioinformatics students.

2013 **INK Journal Reviewer**

Vancouver, Canada

- Reviewed non-academic articles.

2012–2013 **Bioinformatics/IOP Retreat Committee Member**

Vancouver, Canada

- Various duties, including organizing an expert panel discussion.

2012 **Rotation Student**

Gaffney Lab, Wellcome Trust Sanger Institute, Hinxton, UK

- Investigated the relationships between promoter features in lymphoblastoid cells and their effect on gene expression.

2012 **Rotation Student**

Wasserman Lab, CMMT, Vancouver, Canada

- Analyzed mouse cerebellum transcriptome time-course data to identify transcription factors essential to cerebellum development.

2011 **Rotation Student**

Pavlidis Lab, CHiBi, Vancouver, Canada

- Worked on a method for measuring accuracy of metrics comparing gene lists obtained from studies performing differential gene expression analysis.

2009–2011 **Software Engineer**

Goldstream Publishing Inc., Prince George, Canada

- Designed and helped implement a new web-based method of organizing and searching data based on that data's geospatial footprint.

- Developed ways of generating geospatial meta-data and searching the stored information in a way that is intuitive to the user and provides useful results.

2007–2008 **English Tutor**

Osaka, Japan

- Assisted with teaching children of various ages, helping increase exposure to the English language and western culture.
- Taught private English lessons for adults, improving ability of the student to communicate effectively with English speakers.

Summer **Research Assistant**

2006 UNBC Professors Desanka and Jernej Polajnar, Prince George, Canada

- Developed Java software components for research project.
- Assisted in developing algorithms used in software simulation.

## AWARDS

2017 **Faculty of Science Graduate Award**

\$3,465.00

2016 **Faculty of Science Graduate Award**

\$5,557.66

2015 **Faculty of Science Graduate Award**

\$3,236.22

2014 **Mitacs Accelerate**

\$15,000

Awarded to qualified research projects following expert review.

2012 **College for Interdisciplinary Studies Graduate Award**

\$415.61

Awarded based on academic merit.

2011 **CIHR/MSFHR Bioinformatics Training Program for Health Research**

\$22,000/year; 2 years

Awarded based on academic merit.

2011 **College for Interdisciplinary Studies Graduate Award**

\$2,000

Awarded based on academic merit.

- 2007 **One World Scholarship — Irving K. Barber British Columbia Scholarship Society**  
\$3,000  
Awarded based on academic merit, the students' educational objectives, institutional and/or community involvement, and readiness for participation in an overseas exchange program.
- 2007 **UNBC In-course Scholarship**  
\$1,200  
Awarded based on academic excellence.
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\$1,200  
Awarded based on academic excellence.
- 2005 **UNBC In-course Scholarship**  
\$1,200  
Awarded based on academic excellence.
- 2004 **Academic Excellence Award**  
\$536.46  
Awarded based on academic excellence. Tuition waiver for one 3-credit course, application fee waived for UNBC.
- 2004 **Provincial Scholarship Award**  
\$1,000  
Awarded to high school graduates based on provincial exam results.
- 2004 **Innovation Resource Centre Scholarship**  
\$500  
Awarded to students who plan to pursue a degree in a technology related field.
- 2004 **Nukko Lake Elementary Scholarship**  
\$250  
Awarded to students based on academic excellence and financial need.