

Contact

ybutterf@bcgsc.ca

www.linkedin.com/in/yaron-butterfield-3b20b83 (LinkedIn)

Top Skills

Bioinformatics

Genomics

Sequencing

Languages

English (Native or Bilingual)

Certifications

Liberal Arts

Certificate in Creative Writing

Honors-Awards

David Kelly Award for Community Service

Publications

The Genome Sequence of the SARS-Associated Coronavirus

Concurrent CIC mutations, IDH mutations, and 1p/19q loss distinguish oligodendrogliomas from other cancers

Slider – Maximum use of probability information for alignment of short sequence reads and SNP detection

JAGuaR: Junction Alignments to Genome for RNA-Seq Reads

A clinically validated diagnostic second-generation sequencing assay for detection of hereditary BRCA1 and BRCA2 mutations

Yaron Butterfield

Cancer Genomics Researcher
Vancouver, British Columbia, Canada

Summary

I'm a cancer genomics and bioinformatics researcher with an interest in cancer biology, immunology and artificial intelligence (AI). I am involved in all aspects of cancer discovery, prevention, treatment, and care. I have over 20 years experience in the field and over 25 years of experience managing staff, design and programming of software and databases.

Experience

BC Cancer Agency

19 years

Cancer Genomics Researcher

September 2008 - Present

Vancouver, Canada Area

I have worked in the field of bioinformatics, genomics and cancer research for over 18 years at the Canada's Michael Smith Genome Sciences Centre.

Much has changed over the years in technology and goals. From Sanger sequencing of frogs, mice and human to 'Next-generation' Illumina sequencing of human cancer.

I have a high level understanding of genomics and its increasing influence in the clinic.

- Programming and writing software and tools, database and pipeline development for high throughput analysis of DNA, RNA and exome sequences
- Extensive experience supervising and managing staff
- Track record of developing and successfully implementing project plans
- Strong organizational skills and problem-solving abilities
- Excellent written, verbal and interpersonal communication skills
- Good publication record

Bioinformatics Researcher

August 2000 - August 2008 (8 years 1 month)

Vancouver

Major highlight: Analyzing DNA sequence of the SARS Coronavirus genome playing a key role in the bioinformatics of assembling the genome with a tight timeline, leading to acknowledgement of being first the world to do so.

In addition, software design in Perl for various projects such as the bioinformatics of the Mammalian Gene Collection, Forestry and Salmon projects. Coordinated staff up to eight.

Collicutt Energy Services

IT Manager

September 1998 - April 2000 (1 year 8 months)

Coquitlam as Simpson Power Products

Note: At time of employment I was at Simpson Power Products which was subsequently taken over by Collicutt Energy Services. Highlights: As IT manager I coordinated every aspect of a company wide movement from a legacy computer terminal network to a client based Windows network with Windows NT server. This involved the hiring of consultants to help convert data from the legacy systems to a new processing, inventory and purchasing system. I also designed a purchasing order application and a number of other analysis applications to track generator information and sales. Reference available upon request.

D.S.Lester and Associates

Manager

July 1993 - July 1997 (4 years 1 month)

Burnaby

2.5 years part-time + 1.5 years full-time. FT: Single-handedly put together Vancouver's first 24hr Internet Cafe in 1995 (sourcing out companies to build infrastructure and supply computers, hiring staff, media promotions, interviews on radio and TV, Win95 network and human resource manager).

PT: Designed and maintained an entertainment booking application and database for contracts with clients (VBA / Microsoft Access). Main contact with potential clients. Reference available upon request.

Education

Simon Fraser University

Certificate in Creative Writing · (2016)

Simon Fraser University

BSc, Molecular Biology and Biochemistry · (1996 - 2000)

Langara College

Creative Writing · (2016 - 2016)

Simon Fraser University

Minor, Cultural Anthropology · (1996 - 1999)

Simon Fraser University

Certificate of Liberal Arts · (1993 - 1996)