

Victor Yuan

PHD CANDIDATE

Genome Sciences and Technology, UBC, Vancouver, Canada

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Education

PhD, Genome Sciences and Technology

UNIVERSITY OF BRITISH COLUMBIA

2016 – Present

Bachelor of Science (Honours), Cell and Molecular Biology

CONCORDIA UNIVERSITY

2011 – 2016

Research

Graduate Student

University of British Columbia

ROBINSON LAB

2016–Present

- Using genomics to investigate environmental and genetic influences on perinatal health
- Modelling ethnicity using machine learning applied to epigenomic data
- Carrying out epigenome- and transcriptome- wide association studies using public and private repositories

Molecular Biodiversity Lab Assistant

University of British Columbia

MARTONE LAB

2016–2017

- Characterized the impact of weather changes on keystone species lost among the coast of northern BC
- Processed over 300 algal DNA specimens and applied BLAST for species identification

Undergraduate Honours Thesis

Concordia University

WHITEWAY LAB

2014–2016

- Developed a CRISPR gene-fusion-insertion protocol in the unicellular fungal species *C. albicans*

Teaching

Teaching Assistant, STAT 545: Exploratory Data Analysis

UNIVERSITY OF BRITISH COLUMBIA

2019/9–2019/10

- Assisted in-class lectures
- Revise lecture content and exercises
- Hosted office hours
- Marked assignments

Graduate Student Mentor

UNIVERSITY OF BRITISH COLUMBIA

2019/9–2019/11

- Supervised a first year Masters student in Medical Genetics for his 8-week rotation project on placental microRNA analysis in the human placenta

Workshop host, Trainee Omics Group

BC CHILDREN'S HOSPITAL RESEARCH INSTITUTE

2019/8–2019/10

- Designed a research graphics (ggplot2) workshop for beginners

Ungraduate Student Supervisor

UNIVERSITY OF BRITISH COLUMBIA

2019/1–2019/5

- Supervised this student in his 4th year directed studies project which involved genome-wide identification of DNA methylation -regulated micro RNAs in the human placenta

Ungraduate Student Supervisor

BC CHILDREN'S HOSPITAL RESEARCH INSTITUTE

2018/4–2018/8

- Supervised a second-year undergraduate student at the BC Children's Hospital Research Institute's Summer Scholars program during his 3 month internship in the Robinson lab. The project investigated how to combine large DNA methylation datasets across several cohorts for analysis in R

Stats Support Group Member

BC CHILDREN'S HOSPITAL RESEARCH INSTITUTE

2017/1–2018/1

- Helped develop an on-site network of data analysts

R Programming Help Session Host

BC CHILDREN'S HOSPITAL RESEARCH INSTITUTE

2017/1–2018/1

- Hosted a bimonthly 1-hour help session for onsite staff and trainees to address data analysis and programming needs

- Tutored grades 10-12 in Math, English, Chemistry, Biology and general science

Awards

- 2019 (\$750 CAD) Top 3 Talk for PhD category, Healthy Starts Research Day
2018 (\$500 USD) Y.W. (Charlie) Loke Award for Early Career Researchers, International Federations of Placenta Association
2018 (\$750 CAD) Best Poster for Master's category, Healthy Starts Research Day
2018 (\$50 CAD) Top 3 Talk for Masters category, Healthy Starts Research Day
2016 (\$17500 CAD, DECLINED) NSERC Canada Graduate Scholarships-Master's Program, Concordia University
2016 (\$17500 CAD, DECLINED) NSERC Canada Graduate Scholarships-Master's Program, University of Victoria
2016 (\$6000 CAD, DECLINED) Concordia University Special Entrance Award, Concordia University
2015–2016 Dean's list (GPA > 3.75 / 4.25), Concordia University
2015 (\$5625 CAD) Concordia Undergraduate Summer Research Award, Concordia University
2014–2015 Dean's list (GPA > 3.75 / 4.25), Concordia University
2013–2014 Dean's list (GPA > 3.75 / 4.25), Concordia University

Publications

1. Yuan, V, EM Price, G Del Gobbo, S Mostafavi, B Cox, AM Binder, KB Michels, C Marsit, and WP Robinson (Aug. 2019). Accurate ethnicity prediction from placental DNA methylation data. *Epigenetics & Chromatin* **12**(1), 51.
2. Treissman, J, V Yuan, J Baltayeva, HT Le, B Castellana, WP Robinson, and AG Beristain (June 2019). Low oxygen enhances trophoblast column growth by potentiating the extravillous lineage and promoting LOX activity. en. *bioRxiv*, 669796.
3. Lee, Y, S Choufani, R Weksberg, SL Wilson, V Yuan, A Burt, C Marsit, AT Lu, B Ritz, J Bohlin, HK Gjessing, JR Harris, P Magnus, AM Binder, WP Robinson, A Jugessur, and S Horvath (June 2019). Placental epigenetic clocks: estimating gestational age using placental DNA methylation levels. *Aging (Albany NY)* **11**(12), 4238–4253.
4. Acharya, G et al. (Feb. 2019). IFPA meeting 2018 workshop report I: Reproduction and placentation among ocean-living species; placental imaging; epigenetics and extracellular vesicles in pregnancy. *Placenta*.
5. Robinson, WP, MS Peñaherrera, C Konwar, V Yuan, and SL Wilson (Jan. 2019). Epigenetic Modifications in the Human Placenta. *Human Reproductive and Prenatal Genetics*, 293–311.
6. Konwar, C, G Del Gobbo, V Yuan, and WP Robinson (Jan. 2019). Considerations when processing and interpreting genomics data of the placenta. *Placenta*.