Yann Ilboudo

yilboudo@gmail.com LinkedIn: <u>http://www.linkedin.com/in/yannilboudo</u> Github: <u>https://github.com/yilboudo</u> Personal website: <u>https://yilboudo.github.io</u>

EDUCATION	Doctor of Philosophy (Ph.D) in Bioinformatics University of Montreal, Montreal, QC, Canada	01/2018 - 10/2023
	Master of Science (M.Sc.) in Bioinformatics University of Montreal, Montreal, QC, Canada	01/2015 - 03/2017
	Bachelor of Science (B.Sc.) in Bioengineering Binghamton University, State University of New Yor	09/2007 – 05/2011 rk, USA
CORE SKILLS	Research Skills: GWAS • ExWAS • Mendelian Randomiation • eQTL • pQTL • Metabolomics • Genomics • Transcriptomics • Clustering • PCA • UMAP	
	Software: Python • R • REGENIE • PLINK • META Nextflow • RVTESTS • RAREMETALS • Slurm • B Linux • LaTeX • R/Markdown • Bioconductor • Math Performance Computing • Microsoft suite	ash • AWK • Git •
	Human genetics datasets : AllofUS Research • TopMed • UKBio SARDNiA • INTERVAL • OMG • CSSCD • GENMOD • dbGaP • Cl	
	Research cloud computing: DNAnexus, Terra	
	 Languages French (Native proficiency in reading and writing) English (Native proficiency in reading and writing) Italian (Full professional proficiency in reading and Spanish (Elementary proficiency in reading and writing) 	
PROFESSIONAL EXPERIENCES & PROJECTS	 Research associate Lady Davis Institute, Montreal, QC, Canada Developed computational pipelines for genome- mendelian randomization studies Supervises Ph.D. students and interns on various con (proteomics, metabolomics, transcriptomics) projects Assist academic and industry collaborators to execu Reviews manuscripts Hosts weekly lab meetings and monthly journal club Participate in the lab's recruitment efforts (interview Awarded computational storage grant from the Digi 	mputational omics te research studies ys, CV reviews)

	of Canada Compute Canada estimated to be worth \$70,000 •Provide support for managing ~1000Tb of data	
	Research assistant in Bioinformatics03/2017–01/2019Montreal Heart Institute, Montreal, QC, CanadaMetabolomics projects• Implemented a mendelian randomization analysis pipeline in <i>Python</i> to	
	 identify the causal role of metabolites in sickle cell disease patients Performed clustering analysis with WGCNA, developed a wrapper in R to facilitate the analysis Developed a <i>Python</i> script to efficiently parse the <i>XML</i> Human Metabolome Database (HMDB) in order to perform metabolite annotation Wrote projects results and methods in R Markdown 	
	 Genomics projects Developed a pipeline to perform genome-wide association (GWAS) studies for multiple phenotypes outputting tables, and figures Performed whole exome sequencing quality control and analysis with <i>GATK</i> and <i>VEP</i> Developed a <i>Python</i> script to integrate and harmonize results from GWAS, with those from gene expression (RNA-Seq), and genome editing (CRISPR) 	
LEADERSHIP & VOLUNTEERING	 Variant Effect Seminar Series committee member 07/2022 - 10-2024 Organized monthly virtual seminar series on variant effects Performed analytics analyses to optimize the number of people attending seminar Assisted with outreach efforts (Twitter, Instagram, podcast) 	
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SELECTED PUBLICATIONS AND PREPRINTS	Y Ilboudo* , N Brosseau* , K Sin Lo, H Belhaj, S Moutereau, K Marshall, M Reid, A Kutlar, A E Ashley-Koch, M J Telen, P Joly, F Galactéros, P Bartolucci, G Lettre. A replication study of novel fetal hemoglobin-associated genetic variants in sickle cell disease-only cohorts (2025) <u>Human Molecular Genetics.</u>	
	Y Ilboudo , Y oshiji S, Lu T, Butler-Laporte G, Zhou S, Richards JB. Vitamin D, Cognition, and Alzheimer's Disease: Observational and Two-Sample Mendelian Randomization Studies (2024). J <u>Alzheimers Dis</u>	
	T Sasako, Y Ilboudo , K Liang, Y Chen, S Y oshiji, JB Richards The influence of trinucleotide repeats in the androgen receptor gene on	

The influence of trinucleotide repeats in the androgen receptor gene on androgen-related traits and diseases. (2024). J Clin Endocrinol Metab