

TAYAB SOOMRO



Canada



tayabsoomro.com



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EDUCATION

2020-2022	M.Sc. Agriculture @ Institute of Comparative Genomics, Dalhousie University
2015-2020	B.Sc. (Honours) Bioinformatics @ Dept. of Comp Sci, University of Saskatchewan

EXPERIENCE

2022 - Present	CEO @ PathoScan Technologies Inc.
2022 - Present	Bioinformatics Contrator @ Honey Bee La
2020 - Present	Computational Biologist @ NRGene Canada Inc.
2020 - 2020	Independent web dev contractor @ Luxsonic Technologies
2019 - 2020	Student Bioinformatician @ AAFC, Saskatoon
2017 & 2022	Teacher Assistant @ U of S & Dalhousie University
2017 - 2019	Student Research Assistant @ Links Lab University of Saskatchewan
2016 - 2017	Institutional IT Consultant @ U of S

COMMUNITY WORK

2022	Judge @ 2022 Saskatoon Regional Science Fair.
2022	Judge @ 2022 Annapolis Valley Regional Science Fair
2020	Judge @ 2020 Saskatoon Regional Science Fair

AWARDS & CERTIFICATION

2018	Undergraduate Student Research Assistantship (USRA) Award Department of Computer Science, University of Saskatchewan
2015	Programming Contest Award - 1 st Place Recipient Department of Computer Science, University of Saskatchewan

SOFTWARE DEVELOPMET PROJECTS

2020	MICAS - <i>MinION Classification & Altering System</i>
2020	MedCast360 @ Luxsonic - <i>Immersive Video-sharing platform</i>
2020	GenoAssist - <i>CLI tool for genome assembly automation</i>
2018 - 2019	OR Huddle - <i>Software solution for surgeons. A start-up emerged from Med.Hack(+) hackathon held in Saskatoon.</i>

MACHINE LEARNING PROJECTS

- Soomro T, Singh A. (2020). *Progress assessment of scrum daily meetings using NLP and machine learning.*
- Soomro T, Singh A. (2020). *Predicting COVID-19 case numbers in Canada based on Twitter data.*
- Soomro T, Singh A. (2020). *Comparison between SumBasic and Seq2Seq Auto Text-Summarization Techniques.*

PUBLICATIONS

- Soomro T, Watts S, Migicovsky Z, Myles S. (2022). **Cider and dessert apples: what's the difference?** Plants, People & Planet. <https://doi.org/10.1002/ppp3.10284>
- Soomro T, Jordan M, Watts S, Migicovsky Z, Forney C, Song J, Myles S. (in preparation). **Harvest Date Shapes Apple Volatilome.** Horticulture Research.

INVITED TALKS

- Canadian Society of Horticulture Science Annual General Meeting (2022). *The aroma of apples.*
- Kentville Research & Development (KRDC) Series (2022). **Exploring the genetic basis of aroma production in apples.**
- Institute of Comparative Genomics (ICG), Dalhousie University (2022). *Introduction to pan-genomes and how to create one?*
- UC Davis Plant Sciences Symposium (2022). *The genetics of apple aroma.*
- Institute for Comparative Genomics (ICG), Dalhousie University (2022). *Understanding the genetic basis of aroma production in apples.*

CONFERENCES ATTENDED

- Genomes of Animals & Plants (GAP) Conference 2022
Virtual Conference
- Plant and Animal Genomes (PAG) Conference 2022
San Diego, CA, United States
- American Association for the Advancement of Science (AAAS) Conference 2020
Seattle, WA, United States
- Mobilizing the Plant Phenotyping and Imaging Research Centre (P²IRC) Symposium 2018
Saskatoon, SK, Canada
- Annual Plant Phenotyping and Imaging Research Centre (P²IRC) Symposium 2017
Saskatoon, Canada

POSTER PRESENTATIONS

- Masood F, Thebeau J, Soomro T, Bezerra S.M, Jose M.S, Obshta O, Biganski S, Markova S, Camilli M, Raza M.F, Simko E, Ruzzini A, Wood S. (2023). **Antibiotic resistance and genomic characterization of North American *Melissococcus plutonius* isolates.** WCVN Graduate Student Poster Day, Saskatoon, SK
- Obshta O, Zabrodski M. W, Soomro T, Wilson G, Masood F, Thebeau J. M, Silva M. C. B, Biganski S, Kozii I, Kozii R, Raza M. F, Jose M. S, Camilli M, Markova S, Moshynskyy I, Ruzzini A, Simko E, Wood S. C. (2023). **Genetic determinants of oxytetracycline resistance in *Paenibacillus larvae* from Saskatchewan beekeeping operations.** WCVN Graduate Student Poster Day, Saskatoon, SK, Canada

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- Soomro T, Jordan M, Watts S, Migicovsky Z, Forney C, Song J, Myles S. (2021). **Harvest Date Shapes Apple Volatilome**. Plant and Animal Genomes Conference, San Diego, CA, USA
 - Soomro T, Jordan M, Watts S, Migicovsky Z, Forney C, Song J, Myles S. (2021). **Harvest Date Shapes Apple Volatilome**. Plant and Animal Genomes Conference, San Diego, CA, USA
 - Soomro T, Napper S, Bonham-Smith PC. (2020). **Investigation of the *Arabidopsis thaliana* kinome after infection with *Plasmodiophora brassicae* and establishment of clubroot**. American Association for the Advancement of Science, Seattle, WA, USA
 - Soomro T, Links MG. (2018). **Increased Usability of the MinION**. Mobilizing the Plant Phenotyping and Imaging Research Centre Symposium, Saskatoon, Canada
 - Soomro T, Links MG. (2018). **Sequence & Forget: A new paradigm for MinION DNA Sequencing**. Research Fest: Department of Computer Science, Saskatoon, Canada
 - Dowhy T, Soomro T, Links MG. (2018). **Interactive Exploration of Base-calls in Nanopore Data**. London Calling 2018, London, United Kingdom
 - Dowhy T, Soomro T, Links MG. (2017). **Visualization of Nanopore Data with API Access to Data**. Nanopore Community Meeting, New York City, NY, USA
 - Dowhy T, Postnikoff DL, Soomro T, Town JR, Ready, Dumonceaux TJ, Links MG. (2017). **Base-Call Event Detection on Nanopore Data Using Wavelets**. Annual Plant Phenotyping and Imaging Research Centre Symposium, Saskatoon, Canada
 - Dowhy T, Ready B, Soomro T, Armitage A, Links MG. (2017). **Configuring Virtual Toolboxes with Ansible**. Annual Plant Phenotyping and Imaging Research Centre Symposium, Saskatoon, Canada