

TAYAB SOOMRO

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EDUCATION

2020-2022	M.Sc. Agriculture @ Institute of Comparative Genomics, Dalhousie University
2015-2020	B.Sc. (Honours) Bioinformatics @ Department of Computer Science, University of Saskatchewan

EXPERIENCE

2020 - Present	Computational Biologist @ NRGene Canada Inc.
2020 - 2022	Co-founder & CTO @ VocatioNations
2020 - 2020	Independent web dev contractor @ Luxsonic Technologies
2019 - 2020	Student Bioinformatician @ AAFC, Saskatoon
2017 & 2020	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 – 1st Place Recipient Department of Computer Science, University of Saskatchewan

PROJECTS

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

PUBLICATIONS

- Soomro T, Watts S, Migicovsky Z, Myles S. (2022). **Cider and dessert apples: what's the difference?**. Plants, People & Planet.
- 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

- Global Reach – Solving Agricultural Problems Through Research & Innovation (2022). ***Understanding the apple volatilome***.
- 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

- **Gordon Research Conference - Plant Molecular Biology 2022**
Holderness, NH, United States
- **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 PRESENTATION

- 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

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- 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