

# TAYAB SOOMRO

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 tayabsoomro.com

## EDUCATION

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

## EXPERIENCE

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2020 - Present	<b>Computational Biologist @</b> NRGene Canada Inc.
2020 - 2022	<b>Co-founder &amp; CTO @</b> VocatioNations
2020 - 2020	<b>Independent web dev contractor @</b> Luxsonic Technologies
2019 - 2020	<b>Student Bioinformatician @</b> AAFC, Saskatoon
2017 & 2020	<b>Teacher Assistant @</b> U of S & Dalhousie University
2017 - 2019	<b>Student Research Assistant @</b> Links Lab University of Saskatchewan
2016 - 2017	<b>Institutional IT Consultant @</b> U of S

## COMMUNITY WORK

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2022	<b>Judge @</b> 2022 Saskatoon Regional Science Fair.
2022	<b>Judge @</b> 2022 Annapolis Valley Regional Science Fair
2020	<b>Judge @</b> 2020 Saskatoon Regional Science Fair

## AWARDS & CERTIFICATION

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2018	<b>Undergraduate Student Research Assistantship (USRA) Award</b> Department of Computer Science, University of Saskatchewan
2015	<b>Programming Contest Award – 1<sup>st</sup> Place Recipient</b> Department of Computer Science, University of Saskatchewan

## PROJECTS

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

## PUBLICATIONS

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- 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

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- 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

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- **Plant Molecular Biology (Gordon Research Conference) 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 (P<sup>2</sup>IRC) Symposium 2018**  
Saskatoon, SK, Canada
- **Annual Plant Phenotyping and Imaging Research Centre (P<sup>2</sup>IRC) Symposium 2017**  
Saskatoon, Canada

## POSTER PRESENTATION

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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, 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

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- 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