# Curriculum Vitae

# **CHANTEL CHIZEN**

# **EDUCATION**

C.A. Rowles Alumni Scholarship, UBC

Ph.D. – Soil Science University of Saskatchewan	September 2020 – P	Present
M.Sc. – Soil Science University of British Columbia	May 2018 – July	2020
B.Sc. – Applied Biology (with Honours) University of British Columbia Major in Applied Plant and Soil Science / Minor in Commerce	September 2014 – May	y 2018
HONOURS AND AWARDS		
2020 Saskatchewan Innovation & Opportunity Scholarship, USask		2020
2020/2021 Andjelic Land Graduate Award in Agricultural Research,	Andjelic Land / USask	2020
Devolved Scholarship, USask Department of Soil Science		2020
British Columbia Graduate Scholarship, UBC		2019
Graduate Student Leadership Conference Participant, Soil Science So	ciety of America	2019
<b>Student Travel Award for International Soil Science Meetings</b> , Canad Science	ian Society of Soil	2019
Dean Warren D Kitts Scholarship, UBC		2018
Faculty of Land and Food Systems Graduate Award, $\mathit{UBC}$		2018
Undergraduate Book Award, Canadian Society of Soil Science		2018
BC Council of Garden's Club Rose Bancroft Scholarship, B.C. Council UBC	il of Garden Clubs /	2018
Michael J. Goldstein Memorial Service Award, UBC / Pottinger Gaher Consultants Ltd.	ty Environmental	2018
Noel Roddick Service Award, UBC / Terralink Horticulture Inc.		2018

2017

#### **PUBLICATIONS**

#### **Journal Articles**

Lussier, J.M., Krzic, M., Smukler, S.M., Neufeld, K.R., **Chizen, C.J.**, and Bomke, A.A. (2020). Labile soil carbon fractions as indicators of soil quality improvement under short-term grassland set-aside. *Soil Research* 58, 364-370. doi:10.1071/SR19180

### **Presentations**

**Chizen, C.J.**, Bedard-Haughn, A.K. (January 18, 2021). Carbon Storage in Prairie Potholes: Strategies to Improve Estimates (oral presentation). 2021 Prairie Water Annual Partners Meeting, virtual platform.

**Chizen, C.J.**, Krzic, M., Smukler, S.M., and Black, T.A. (November 9, 2020). Soil Greenhouse Gas Emissions Following Urea Application in an Incubation Experiment (poster presentation). 2020 ASA-CSSS-SSSA Annual Meeting, virtual platform.

**Chizen, C.J.**, Krzic, M., Smukler, S.M., and Black, T.A. (November 12, 2019). The Impacts of Nitrogen Fertilizer Rates on Greenhouse Gas Emissions from Potato Production (oral presentation). 2019 ASA-CSSS-SSSA Annual Meeting, San Antonio, Texas, USA. *Third Place Oral Presentation: ASA Soil Carbon and Greenhouse Gas Emissions Community* 

**Chizen, C.J.**, Krzic, M., Smukler, S.M., and Black, T.A. (July 11, 2019). The Effects of Nitrogen Fertilizer Rate on Greenhouse Gas Emissions and Potato Production in Delta, BC (poster presentation). 2019 Canadian Society of Soil Science, Saskatoon, Saskatchewan, Canada. *President's Award – Second Place Poster Presentation* 

**Chizen, C.J.**, Krzic, M., Smukler, S.M., and Black, T.A. (January 7, 2019). The Effects of Nitrogen Fertilizer Rates and Drainage on Greenhouse Gas Emissions and Soil Properties in Potatoes Fields in Delta, BC. (poster presentation). Soil Science Society of America International Meeting, San Diego, California, USA.

#### RESEARCH PROJECTS

Wetland Soil Carbon Storage in the Prairie Pothole Region Dissertation – Ph.D. in Soil Science, USask	September 2020 – Present
The Response of Greenhouse Gas Emissions to Nitrogen Fertilizer Application Rates and Soil Drainage Thesis – M.Sc. in Soil Science, UBC	May 2018 – July 2020
The Effect of Grassland Set-Asides on the Active Soil Organic Matter Pool as Measured by Particulate Organic Matter and Labile Polysaccharides  Directed Studies Research - B Sc. in Applied Biology, UBC	January 2017 – April 2017

#### RESEARCH EXPERIENCE

#### **Graduate Researcher**

September 2020 – Present

University of Saskatchewan

Project planning and conducting a literature review on wetland soil carbon storage for my PhD research. Will conduct field sampling and soil analyses in the near future.

May 2020 – August 2020

#### **Summer Research Assistant**

University of Saskatchewan

Conducted a literature review on the effects of drainage on carbon storage in wetlands within the Prairie Pothole Region. Retrieved soil carbon data from publications (reports, articles, and datasets) to support the development of models to estimate carbon losses with wetland drainage.

Graduate Researcher May 2018 – July 2020

UBC Faculty of Land and Food Systems

Completed field sampling of soil, plant, and gas followed by various laboratory analyses. Maintained an effective data management system and conducted statistical analysis. Coordinated and provided mentorship to undergraduate research assistant, volunteers, and high school mentees.

**Undergraduate Research Assistant** 

UBC Faculty of Land and Food Systems; Delta Farmland & Wildlife Trust

Efficiently processed soil and plant samples for lab analysis. Maintained a strong attention to detail in order to ensure quality results and workplace safety.

September 2017 – April 2018; October 2016 – December 2016

#### **Administration Assistant**

Agriculture and Agri-Food Canada

Designed and maintained a document sharing platform for research centre staff to improve accessibility to safety protocols, training materials, and committee meeting minutes. Became involved in the local safety committee where responsibilities included maintaining first aid kits, processing WCB claims, helping with laboratory safety audits.

May 2016 – August 2016

#### **TEACHING EXPERIENCE**

#### **Graduate Teaching Assistant**

January 2021 – Present

University of Saskatchewan Department of Soil Science

Creating course materials for laboratory modules and grading assignments in the following undergraduate courses:

• SLSC 240: Agricultural Soil Science

#### **Soil Science Education Content Developer**

UBC Faculty of Land and Food System

Developed soil chemistry learning modules which included concept descriptions, graphics, and self-assessments. The modules are a part of a larger online, open-source project with the aim to address knowledge gaps in challenging soil science concepts for post-secondary students.

September 2019 – December 2019

September 2018 – April 2019

#### **Graduate Instructional Skills Workshop**

UBC Centre for Teaching, Learning and Technology

A 3-day workshop on the development of skills for effective teaching and learning. There was a particular focus on adult learning theory, developing learning objectives and teaching plans, and encouraging student engagement during class.

January 2019

#### **Graduate Teaching Assistant**

UBC Faculty of Land and Food Systems

Guided students through problem-based learning cases, led group discussions, taught laboratory modules, held office hours, and graded assignments for the following undergraduate courses:

- APBI 200: Introduction to Soil Science
- APBI 260 Agroecology I: Introduction to principles and techniques

#### LEADERSHIP AND VOLUNTEER ROLES

Graduate School Workshop Committee Member Agronomy, Crop, and Soil Science Societies	January 2021 – Present
VP Communications USask Soil Science Graduate Student Association	September 2020 – Present
Unit Guider Girl Guides of Canada	September 2020 – Present
Science Workshop Volunteer Let's Talk Science; UBC Faculty of Land and Food Systems	February 2019 – Present
Past-President / Student Awards Committee Chair Pacific Regional Society of Soil Science	April 2019 – April 2020
President Pacific Regional Society of Soil Science	April 2018 – April 2019
President-Elect / Website and Media Coordinator Pacific Regional Society of Soil Science	April 2017 – April 2018

# December 2016 – April 2017

**Undergraduate Representative**Pacific Regional Society of Soil Science

# PROFESSIONAL AFFILIATIONS

Saskatchewan Institute of Agrologists (student member)	2020 – Present
Soil Science Society of America / American Society of Agronomy	2018 – Present
Canadian Society of Soil Science	2018 – Present
Pacific Regional Society of Soil Science	2016 – 2021
British Columbia Institute of Agrologists (student member)	2017 – 2020