

(Sean) Xiaozhu Chuan

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Experience and Qualifications

- Scientist with skills and experience designing, collecting and managing datasets, reporting results and critical thinking.
- Professional expertise in molecular biology methods including DNA isolation, purification and amplification
- Skilled in a wide range of lab techniques including measurements microbial respiration, extracellular enzyme activity, and leaf litter and soil decomposition
- Background in proximate analysis including elemental analysis and ADF methods
- Detail oriented, team player, able to complete projects in a timely manner
- Strong organization and management abilities indicated by success managing students during field and lab studies
- Excellent data analysis capabilities, familiarity with statistical software including R
- Competent in relevant bioinformatics software/programming languages (e.g. Arlequin, STRUCTURE, BioEdit, etc.)

Education

Master of Science

Expected Jan. 2017

Faculty of Agriculture, Life and Environmental Science
Department of Agriculture, Food and Nutritional Science
University of Alberta – Edmonton, AB Canada

Bachelor of Science (Honours)

Apr. 2014

Department of Biology
Dalhousie University – Halifax, NS Canada

Work experience

Research Assistant

May 2014 – Current

Rangeland Research Institute/University of Alberta, Edmonton AB

- Quantify nutrient cycling, including extracellular enzyme activity
- Expert in laboratory method, including use most benchtop equipment (e.g. pH meter), molecular kits, multiplate reader and elemental analyzer
- Elementary proficiency in plant community ID and assessments of soil health

Course Marker

Sep. 2015/6 – Dec. 2015/6

University of Alberta, Edmonton AB

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- Mark assignments and exams for ENCS 356: Principles of Rangeland Conservation

Research Assistant

May 2013 – Apr. 2014

Marine Gene Probe Lab/Dalhousie University, Halifax NS

- Assisted in primer design for mitochondrial DNA of Atlantic fish species
- Helped with fish sampling and identification
- Designed PCR protocol, provided solution in PCR troubleshooting and optimization
- Conducted DNA isolation manually and using robotic platform
- Assisted in DNA sequencing of Atlantic fish

Communication

Bilingual: Native in Mandarin and full working proficiency in English. Can translate between both languages, including technical information. Presentation of research at conferences.

Skills

- **Time Management**
Ability of processing multitasks efficiently, establishing priorities and complying with deadlines. Efficiently and precisely completed time sensitive laboratory work
- **Leadership**
Team leader, laboratory work instruction, guide and mentor field work with field assistant
- **Troubleshooting**
Excellent skills in troubleshooting technical problems and proposing possible solutions to supervisor. Experienced in interpreting data analysis results and resolving problems. Strong skills researching via the primary literature

Professional Certifications & Training

- **Laboratory Safety Training** 2016
- **Workplace Hazardous Materials Information System (WHMIS)** 2015
- **Defensive Driving Training** 2015
- **Transportation of Dangerous Goods** 2014
- **Driver's License** Class-5 non-GDL, clean driving record since 2010

References Available Upon Request

Presentation List and Publications Available Upon Request