

# Women in Science, Engineering, Agriculture and the Environment at The University of Manitoba



Name: Dr. Genevieve Ali  
Research areas: Process-based hydrology, precipitation-runoff modeling, hydrometric monitoring, chemical and isotopic tracer studies and prediction in ungauged basins.

Teaching: Watershed Sciences, Introduction to Process Hydrology, Evolving Questions in Watershed Sciences, Topical Writing: Evolving Questions in Watershed Sciences.

Departments: Watershed Systems Research Program, Geological Sciences, Center for Earth Observation Science (CEOS).

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Website: <http://galiresearch.com/>.



Name: Dr. Zou Zou Kuzyk  
Research areas: Terrigenous organic matter in Arctic margin areas: sources, pathways and sinks,

modelling sedimentation processes in Arctic coastal and shelf environments, diagenesis of redox-sensitive elements, freshwater sources and pathways in the coastal ocean, land-ocean interactions and the marine nutrient cycle and pathways and fate of contaminants.

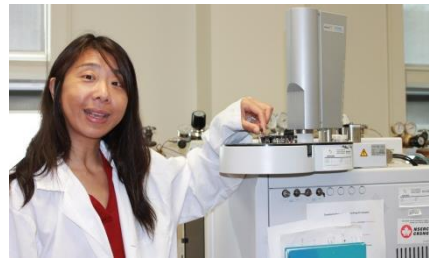
Teaching: Glacial Geology and Geomorphology, Advanced Topics in Geological Sciences, Technical Report, Seminar in Geological Sciences, Special Topics in Geography: Freshwater in Arctic Seas, Principles of Inorganic Geochemistry.

Departments: Arctic Systems Research, CEOS, Geological Sciences.

Contact: 526 Wallace Building, Phone: (204) 272-1535, [ZouZou.Kuzyk@ad.umanitoba.ca](mailto:ZouZou.Kuzyk@ad.umanitoba.ca).

Website:

<http://umanitoba.ca/faculties/environment/departments/ceos/people/zkuzyk.html>.



Name: Dr. Qiuyan Yuan  
Research Areas: Technological implementation of biological phosphorus

removal and chemical phosphorus recovery, leachate treatment, biomass fermentation, and anaerobic digestion, development of sustainable technologies for water and waste treatment processes that will reduce environmental burden, carbon footprint, and greenhouse gas emissions.

Teaching: Environmental Engineering Design.

Departments: Civil engineering.

Contact: E3-375 EITC, Phone: (204) 474-8604, [Qiuyan.Yuan@umanitoba.ca](mailto:Qiuyan.Yuan@umanitoba.ca).

Website: <http://home.cc.umanitoba.ca/~umyuan3/>.



Name: Dr. Kateryn Rochon  
Research areas: Specialization in the field of veterinary entomology, including ecology, surveillance, and management of arthropod

pests associated with livestock and wildlife. Interest in arthropod-host interactions, arthropod-microbe interactions, and emerging and re-emerging arthropod-borne diseases. Current research includes geographic distribution of ticks and other arthropods of veterinary importance (like biting flies), and ecology and surveillance of blacklegged ticks in Manitoba.

Teaching: Pest Management and Farm Insects, World of Bugs, Veterinary and Wildlife Entomology, Advanced Entomology.

Departments: Entomology

Contact: 215 Entomology Building, Phone: (204) 474-8640, [kateryn.rochon@umanitoba.ca](mailto:kateryn.rochon@umanitoba.ca).

Website:

<http://umanitoba.ca/faculties/afs/dept/entomology/personnel/Roshon.html>.



Name: Dr. Christine Wu  
Research Areas: Ground vehicle structural integrity and vehicle dynamics, dynamics and control of legged walking robots, Lyapunov's stability of

nonlinear systems, energy efficient bipedal walking robots, biomechanics, human dynamics and gait stability monitoring.

Teaching: Mechanics of Machines, Stress Analysis and Design, Applied Linkage Synthesis, Advanced Nonlinear Systems Analysis.

Departments: Mechanical and Manufacturing Engineering.

Contact: E1-414 EITC, Phone: (204) 474-8843, [Christine.Wu@umanitoba.ca](mailto:Christine.Wu@umanitoba.ca).

Website: <http://home.cc.umanitoba.ca/~cwu/>.



Name: Dr. Barb Sharanowski  
Research areas: Evolution of Hymenoptera, hymenopteran phylogenomics, behavioural genomics, taxonomy and systematics of Braconidae, molecular

characterization of species, parasitoid biology, insect succession on carrion.

Teaching: Insect Taxonomy, Crop Protection Entomology, and World of Bugs, Advanced Entomology, Advanced Insect Taxonomy, and Molecular Phylogenetics.

Departments: Entomology.

Contact: 214 Animal Science Bldg, Phone: (204) 474-7485, [barb\\_sharanowski@umanitoba.ca](mailto:barb_sharanowski@umanitoba.ca).

Website:

<http://home.cc.umanitoba.ca/~sharanow/contact.html>.



Name: Dr. Tricia Stadnyk  
Research Areas: Mesoscale hydrological modeling, water isotopes, climate change impact studies, water-availability studies for hydropower production.

Teaching: Hydrology,

Environmental Systems, Watershed Processes, Hydrological Processes, Isotope Hydrology.

Departments: Civil Engineering, Water Resources.

Contact: E1-308 EITC, Phone: (204) 474-7513, [Tricia.Stadnyk@ad.umanitoba.ca](mailto:Tricia.Stadnyk@ad.umanitoba.ca).

Website:

<http://watflood.ce.umanitoba.ca/index.html>.



Name: Dr. Yvonne Lawley  
Research areas: Agronomy, soybean and corn agronomy, and cropping systems research, cover crops, plant and soil interactions, plant

and soil management to address agricultural and environmental challenges.

Departments: Plant Science, Agricultural and Food Sciences.

Contact: 105 Agriculture Bldg, Phone: (204) 474-6504, [yvonne\\_lawley@umanitoba.ca](mailto:yvonne_lawley@umanitoba.ca).

Website:

[http://umanitoba.ca/faculties/afs/dept/plant\\_science/staffs/faculty.html](http://umanitoba.ca/faculties/afs/dept/plant_science/staffs/faculty.html).



Name: Dr. Samar Safi-Harb  
Research areas: High-Energy Astrophysics; Supernova remnants, pulsar wind nebulae, compact objects (neutron stars, magnetars, jet sources), Interstellar Medium; cosmic ray acceleration; observations with radio, X-ray and gamma-ray telescopes; future X-ray mission ASTRO-H.

Teaching: General Astronomy, Stars, Astronomy Project, Graduate level courses in Advanced Topics in Astrophysics.

Department: Physics and Astronomy.

Contact: 311 Physics Bldg, Phone: (204) 474-7104, [samar.safi-harb@umanitoba.ca](mailto:samar.safi-harb@umanitoba.ca).

Website: <http://www.physics.umanitoba.ca/~samar/>.