



### Former Graduate Students, Post Doctoral Fellows and Research Assistants



Funding provided by the NSERC

CREATE program



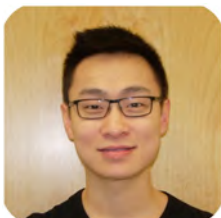
#### 2016 Cohort



Xueyang Liu (Student Research Assistant). Elevated levels of nitrogen and sulfur depositions effects on soil acidification and decline in tree growth and understory species.  
[xueyang@ualberta.ca](mailto:xueyang@ualberta.ca)



Anita Nowinka (Student Research Assistant). Moss and peat as monitors of present and past atmospheric dust deposition in the Athabasca Bituminous Sands Region.  
[nowinka@ualberta.ca](mailto:nowinka@ualberta.ca)



Stanley Thach (Student Research Assistant). Biodegradation of hydrocarbons in residual organic diluent in oil sands tailings by syntrophic anaerobic bacteria and methanogenic archaea.  
[sthach@ualberta.ca](mailto:sthach@ualberta.ca)

#### 2015 Cohort



Muhammad Arshad (Post Doctoral Fellow). Development of biopolymers for de-watering and consolidation of oil sands tailings. [arshad4@ualberta.ca](mailto:arshad4@ualberta.ca)



Bin Ma (Post Doctoral Fellow). Rhizosphere microbial community response to salt migration and capping strategies in oil sands reclamation. [bma2@ualberta.ca](mailto:bma2@ualberta.ca)



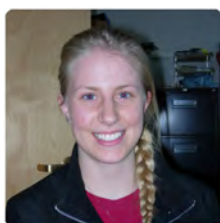
Mihiri Wadu (Post Doctoral Fellow). Micronutrient and phosphorous availability and speciation and tree growth in reconstructed forest soils in the Athabasca oil sands region. [manimelw@ualberta.ca](mailto:manimelw@ualberta.ca)



Wengqing Zhang (Post Doctoral Fellow). Drought, salinity and mycorrhizal effects on plant water relations in oil sands reclamation. [wengqing3@ualberta.ca](mailto:wengqing3@ualberta.ca)



Karen Christensen-Dalsgaard (MSc Student). Bioremediation of eutrophic lakes through food-web manipulation. [kkchrist@ualberta.ca](mailto:kkchrist@ualberta.ca)



Lynnette Allemand (Student Research Assistant). Biopolymer assisted consolidation of oil sands tailings. [allemand@ualberta.ca](mailto:allemand@ualberta.ca)



Sylvanne Foo (Student Research Assistant). Investigating the root architecture of trees in response to soil characteristics. [sylvanne@ualberta.ca](mailto:sylvanne@ualberta.ca)



Peining Guan (Student Research Assistant). Examining the spatial pattern of soil properties created by land reclamation at an oil sands mining site. [peining1@ualberta.ca](mailto:peining1@ualberta.ca)



Kayla Rice (Student Research Assistant). Examining the presence of arsenic and selenium in the lower Athabasca River in Alberta. [krice@ualberta.ca](mailto:krice@ualberta.ca)



Yike Shen (Student Research Assistant). Influence of salt migration (from saline ground water) with different capping strategies on root growth and rhizosphere microbial communities. [syike@ualberta.ca](mailto:syike@ualberta.ca)



Yingjie Wu (Student Research Assistant). Growth performance of nutrient loaded seedlings of jack pine, white spruce and aspen on reconstructed soils of oil sands in northern Alberta.

[yingjie@ualberta.ca](mailto:yingjie@ualberta.ca)

## 2014 Cohort



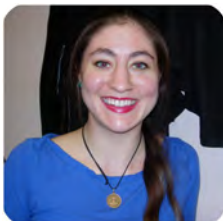
Jeff Kelly (Post Doctoral Fellow). Development of high quality seedling stock for reclamation and restoration.

[jwkelly@ualberta.ca](mailto:jwkelly@ualberta.ca)



Jaime Aguilar (MSc Student). Plant species and soil management practices for naturalization of urban green areas.

[aguilarr@ualberta.ca](mailto:aguilarr@ualberta.ca)



Elizabeth Domreis (MSc Student). Characterization and mapping of metabolic and genetic pathways in syntrophic methanogenic biodegradation of hydrocarbons in oil sands tailings. This student's research is partially funded by the Helmholtz-Alberta Initiative (HAI). [domreis@ualberta.ca](mailto:domreis@ualberta.ca)



Mark Donner (MSc Student). Assessment of arsenic and selenium in ground and surface water of the Lower Athabasca River Watershed. [mdonner@ualberta.ca](mailto:mdonner@ualberta.ca)



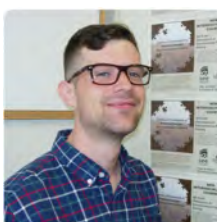
Stephanie Ibsen (MSc Student). Effects of long term nitrogen and sulfur depositions on soil properties, soil microbial biomass composition, greenhouse gas emissions and soil nitrogen saturation in the Athabasca oil sands. [sibsen@ualberta.ca](mailto:sibsen@ualberta.ca)



Jasmine Lamarre (MSc Student). Moss revegetation for northern environments. This student's research is partially funded by the Helmholtz-Alberta Initiative (HAI). [jlamarre@ualberta.ca](mailto:jlamarre@ualberta.ca)



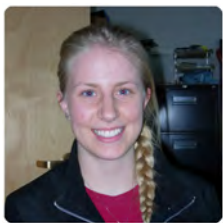
Caitlin Low (MSc Student). Impacts of pipeline right of ways on native prairie plant communities. This student's



Scott Wilson (MSc Student). Monitoring bird use of reclaimed wellpad sites at different vegetation recovery stages.

research is partially funded by the Helmholtz-Alberta Initiative (HAI). [chlow@ualberta.ca](mailto:chlow@ualberta.ca)

[sjw@ualberta.ca](mailto:sjw@ualberta.ca)



[Lynnette Allemand](#) (Student Research Assistant). Examining root distribution in compacted reclamation soils. [allemand@ualberta.ca](mailto:allemand@ualberta.ca)



[Irleigh Anderson](#) (Student Research Assistant). Assisting with various reclamation projects involving pipelines, phosphogypsum, diamond mines and other disturbances. [iraleeanderson@gmail.com](mailto:iraleeanderson@gmail.com)



[Connor Charchuk](#) (Student Research Assistant). Monitoring bird use of reclaimed wellpad sites at different vegetation recovery stages. [ccharchu@ualberta.ca](mailto:ccharchu@ualberta.ca)



[Catherine Pocklington](#) (Student Research Assistant). Effects of subsoil ripping on soil physical properties and soil water dynamics of reconstructed soils. [cpocklin@ualberta.ca](mailto:cpocklin@ualberta.ca)



[Logan Purdy](#) (Student Research Assistant). Effects of different agricultural and landscape management practices on soil properties and health. [lpurdy@ualberta.ca](mailto:lpurdy@ualberta.ca)



[Martin Robinson](#) (Student Research Assistant). Enhancing reclamation of tundra communities following mining. [mjrobins@ualberta.ca](mailto:mjrobins@ualberta.ca)



[Sarah Thacker](#) (Student Research Assistant). Mine site reclamation in northern Alberta. [sithacke@ualberta.ca](mailto:sithacke@ualberta.ca)



[Lijing Wang](#) (Student Research Assistant). Impacts of elevated nitrogen and sulfur depositions on land reclamation in the Athabasca oil sands region. [lijing@ualberta.ca](mailto:lijing@ualberta.ca)



[Venesa Whyte](#) (Student Research Assistant). Methods to enhance reclamation of northern plant communities and assisting with reclamation projects after pipeline



[Hye In Yang](#) (Student Research Assistant). Testing efficacy of biochars in removing metal, phosphorous and nitrogen contamination in oil sands process affected waters. [hyein@ualberta.ca](mailto:hyein@ualberta.ca)

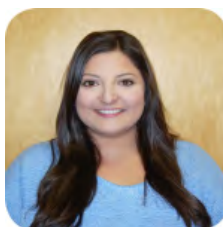


construction, mining and other disturbances.  
[venesa@ualberta.ca](mailto:venesa@ualberta.ca)

## 2013 Cohort



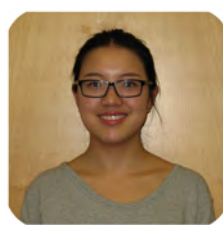
[Brett Campbell](#) (MSc Student). Determining the optimal time to shut down and reclaim gravel mines in close proximity to urban areas. [bacampbe@ualberta.ca](mailto:bacampbe@ualberta.ca)



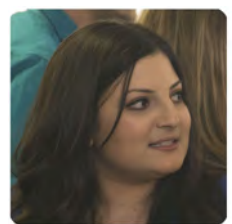
[Jenna Abou Rizk](#) (MSc Student). Use of phosphogypsum as a substrate component for land reclamation. [jabouriz@ualberta.ca](mailto:jabouriz@ualberta.ca)



[Alison Bijman](#) (MSc Student). Effects of biochar, fertilizer and deadwood shelter treatments on establishment of herbaceous vegetation during coal mine reclamation. This student's research is partially funded by the Helmholtz-Alberta Initiative (HAI). [bijman@ualberta.ca](mailto:bijman@ualberta.ca)



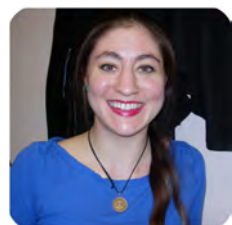
[Kangyi Lou](#) (MSc Student). Effectiveness of biochar applications in removing organic and inorganic contaminants in oil sands process affected water. This student's research is partially funded by the Helmholtz-Alberta Initiative (HAI). [kangyi@ualberta.ca](mailto:kangyi@ualberta.ca)



[Jenna Abou Rizk](#) (Research Assistant). Revegetation potential of phosphogypsum as a soil amendment.



[Alison Bijman](#) (Research Assistant). Effects of biochar amendments on herbaceous vegetation.



[Elizabeth Domreis](#) (Research Assistant). Characterization and mapping of metabolic and genetic pathways in syntrophic methanogenic biodegradation of hydrocarbons in oil sands tailings.



[Jasmine Lamarre](#) (Research Assistant). Moss revegetation for northern environments.

## 2012 Cohort



Kangho Jung (Post Doctoral Fellow). Effects of textural interfaces on soil physico-chemical properties in reclaimed jack pine and white spruce stands. This fellow's research was partially funded by the Helmholtz-Alberta Initiative (HAI).



Federico Mollard (Post Doctoral Fellow). Plant community regeneration through seeds. This fellow's research is partially funded by the Helmholtz-Alberta Initiative (HAI).



Victoria Collins (PhD Student). Methane production and hydrocarbon degradation under nutrient limiting conditions in tailings ponds and potential for contaminant release in end-pit lakes. This student's research is partially funded by the Helmholtz-Alberta Initiative (HAI). [ccollins@ualberta.ca](mailto:ccollins@ualberta.ca)



Sarah Ficko (PhD Student). Shrub and lichen revegetation for diamond mine reclamation. This student's research is partially funded by the Helmholtz-Alberta Initiative (HAI). [ficko@ualberta.ca](mailto:ficko@ualberta.ca)



Matthew Gelderman (MSc Student). Regeneration of whitebark pine at northern distribution limits. [mgelderm@ualberta.ca](mailto:mgelderm@ualberta.ca)



Zhichao Jiao (MSc Student). Role of microsites in revegetation of disturbed sites. This student's research is partially funded by the Helmholtz-Alberta Initiative (HAI). [zjiao@ualberta.ca](mailto:zjiao@ualberta.ca)



Matthew Gelderman (Research Assistant). Disturbance ecology and white bark pine species.



Valerie Miller (Research Assistant). Microsite establishment and emergence for reclamation in prairie and aspen parkland ecoregions.



Zhichao Jiao (Research Assistant). Microsite establishment and emergence for reclamation in prairie and aspen parkland ecoregions.

Come join us. Help make a positive impact on the world we share.

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