



## 2018 CSEG FOUNDATION SCHOLARSHIPS

Every year the CSEG Foundation Scholarship Committee awards scholarships to deserving candidates in continuing education across Canada. In 2018, 55 high-quality applications were received from across Canada and a total of 16 scholarships were awarded. Two awards of \$500 were granted to high school graduates entering university in September 2018. Thirteen awards of \$2,000 were made to geophysics students enrolled in university degree programs and one award of \$1,000 was made to a student technologist.

In order to qualify for a university student award, students must be enrolled at a Canadian university in an academic program leading to an exploration geophysics career in industry, teaching, or research. Scholarships are awarded on the basis of academic performance, financial need, interest in geophysics and extra-curricular activities. In 2012, the Foundation introduced a new scholarship in response to the emergence of geoscience technology programs across the country.

To be eligible, students must be enrolled full-time at an accredited educational institution in Canada leading to a degree in geoscience technology (oil and gas, mining, etc.). In addition, the Foundation awards up to two university entrance scholarships, aimed at high school graduates.

The CSEG Scholarship Committee is part of the CSEG Foundation, and is run each year by a minimum of three volunteers tasked with assessing scholarship applications. Scholarships are funded primarily through corporate and individual donations, social events, and through interest generated from memorial trust funds. If you are interested in contributing, we are gratefully accepting donations. Please contact the committee or donate via [www.cseg.ca](http://www.cseg.ca) and indicate that the funds are in support of CSEG Foundation Scholarships. All donations are tax deductible and charitable donation receipts will be issued.

The CSEG Scholarship Committee would like to thank all of the generous scholarship sponsors for their support in 2018. Whenever possible please support these sponsors. Such sponsorship contributes greatly to the education of geophysics students, and to the advancement of the field of geophysics in Canada.

*Ian Watson, CSEG Foundation Director and Scholarship Committee Chair*

*Rob McGrory, Trustee*

*Craig Mosher, Trustee*

CSEGF Scholarships: [csegf.scholarships@shaw.ca](mailto:csegf.scholarships@shaw.ca)

### University Entrance Scholarships 2019

Up to two high school scholarship awards of \$500 will be made in 2019. To be eligible, students must be a high school students entering into a university program in fall 2019. Applicants must be entering into a science-based program, and/or, be a dependent of a CSEG member. Awards will be forwarded to the students' university for deposit into their tuition accounts.

**Applications open: April 15, 2019**

**Application deadline: June 15, 2019**

**Awards notification: July 15, 2019**

### University and Technology Scholarships 2019

Students pursuing a course of studies directed toward a career in exploration geophysics at a Canadian university or technical institute are encouraged to apply. Applicants must be or become a CSEG student member or have a parent who is a CSEG member.

**Applications open: September 1, 2019**

**Application deadline: November 1, 2019**

**Awards notification: December 1, 2019**

Scholarship Online Application Form available at:  
[cseg.ca/foundation/scholarship-application](http://cseg.ca/foundation/scholarship-application)

### University Entrance Scholarships 2018

High school recipients of \$500 scholarships, entering into university science programs in the fall of 2018 were:

Recipient	Institution	Sponsor
Debbie Aturamu	University of Guelph	Ron Larson
Nicolas Pacholok	University of Alberta	Andreas Cordsen

# UNIVERSITY AND TECHNOLOGY SCHOLARSHIPS – 2018



## Ben Lysak

**University of Alberta**

**\$2,000 Sponsor: Various CSEG Members**

Ben Lysak completed his B.Sc. at the University of Alberta with a specialization in Geophysics.

Currently, Ben is pursuing his M.Sc. at the University of Alberta in Geophysics under the supervision of Vadim Kravchinsky. Ben's research interests include Geomagnetism and Paleomagnetism. His project is focused on Paleomagnetism of the South China block during the Early Paleozoic. Ben has worked with Apex Geoscience and as a technician for the University of Alberta's Geophysics Field School in his summers. His extracurricular activities include canoeing, camping, playing sports and coaching football.



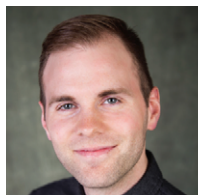
## Howard Zhang

**University of Calgary**

**\$2,000 Sponsor: Repsol E&P Canada**

Howard Zhang is currently a fourth-year undergraduate student in Geoscience from the

University of Calgary. He spent his first two years at the China University of Petroleum and came to Canada in September 2017 to complete his degree at the University of Calgary. Howard is passionate about quantitative analysis of the earth, so he did his geophysics summer research project with Dr. Jan Dettmer. The research used time-domain deconvolution of the seismic data and Bayesian Inversion to image crustal and upper-mantle properties. This research experience also triggered Howard's interests in exploring more statistics and computer science tools, particularly Machine Learning, to help in geophysics analysis.



## Jeremy Gosselin

**University of Ottawa**

**\$2,000 Sponsor: Anonymous  
CSEG Foundation Donor**

Jeremy completed his B.Sc. and M.Sc. degrees

at the University of Victoria. He is currently in his second year of a Ph.D. program in Geophysics at the University of Ottawa. His research involves developing probabilistic methods for inferring structural models from passive seismic data. He plans to apply these novel techniques to image the seismic velocity structure in subduction zones. Jeremy enjoys the multi-disciplinary nature of geophysics along with the opportunities for travel, field work, and software development. Outside of school, Jeremy spends his time cycling, cross-country skiing, and reading science-fiction novels.



## Hossein Jodeiri Akbari Fam

**Laurentian University**

**\$2,000 Sponsor: Rob Shugg Memorial**

Hossein Jodeiri received his B.Sc. degree in

Mineral Exploration Engineering in 2015 and his M.Sc. degree in Petroleum Exploration Engineering in 2017 from the Sahand University of Technology, Tabriz, Iran. He also benefited from the valuable knowledge of professor Yilmaz in his M.Sc. thesis. He passed several courses in reservoir geomechanics and geophysics at Amirkabir University of Technology as a Petroleum Exploration Engineering Ph.D. student. In September 2018, he joined the Metal Earth research project at Laurentian University, where he is a Ph.D. student with a specialization in Exploration Geophysics. His primary research interest involves seismology, with an emphasis on seismic data processing and interpretation. Specifically, he is developing multi-focusing seismic imaging of complex hard rock media as part of the Metal Earth initiative for imaging complex subsurface geological structures in Abitibi and Wabigoon geological sub-provinces. Also, he has been working on "Extraction of converted wave reflection from conventional seismic data".



ROB SHUGG (1948 – 2011)



## Marie Flanagan

**Memorial University of Newfoundland**

**\$2,000 Sponsor: Anonymous CSEG  
Foundation Donor**

Marie Flanagan is a second-year undergraduate

student studying at the Memorial University of Newfoundland. She is completing a major in Earth Sciences and a minor in Mathematics. Her geophysical interests include applied seismology, paleomagnetism, and geophysical exploration of the oceans. Marie hopes to further study marine geophysics, including bathymetry and seismic surveying to analyze sub-seafloor rock profiles. This is a primary interest of hers because of its relevance to the oil and gas sector in Newfoundland, and she plans to do her honours thesis on related material. Marie loves the outdoors, including activities such as frisbee, camping, and swimming. Marie is a lifeguard, summer camp counsellor, and avid hiker. She hopes to one day complete her professional geoscientist registration in Newfoundland and Labrador.



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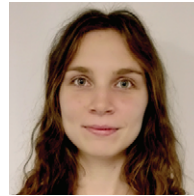


## Jordan Phillips

University of Alberta

**\$2,000 Sponsor: 2018 DoodleSpiel  
Participants and Organizers**

Jordan Phillips completed her Bachelor's degree in Geophysics from the University of Alberta in Edmonton, Alberta. She is now a Geoscientist-in-Training (GIT) and pursuing an interdisciplinary M.Sc. in Geophysics from the University of Alberta under the guidance of Dr. Mirko van der Baan and Dr. Sven Anders. Jordan's research focuses on the public perceptions of the oil and gas industry in Western Canada. After her degree is complete, she hopes to work in Alberta in a career that encompasses her geoscience background, management and leadership skills, knack for teaching, and love for the outdoors. In her spare time, Jordan volunteers with her local figure skating club, plays Ultimate Frisbee, and crochets, and she is also improving her conversational French.



## Paulina Wozniakowska

University of Calgary

**\$2,000 Sponsor: TGS**

Paulina Wozniakowska is working on her PhD in Geophysics with Prof. Eaton at the University of Calgary. She received her B.Sc. (2015) and M.Sc. (2016) in Applied Geophysics from the AGH University of Science and Technology in Krakow. After graduating, Paulina worked in the Czech Republic as a junior analyst at a company specializing in microseismic monitoring of hydraulic-fracturing operations in the USA and Canada until she began her Ph.D. studies. Previously Secretary of the SEG Student Chapter in Krakow, she is now Vice-President of the SEG Student Chapter in Calgary. Her current research focuses on applications of machine learning in induced seismicity analysis. In her spare time, Paulina enjoys practicing yoga as well as playing board games and ukulele. She speaks English and Polish and is an intermediate user of Spanish and Czech.



## Michael Audia

University of Calgary

**\$2,000 Sponsor: Brian and Elaine Russell**

Michael Audia is currently in the final year of his undergraduate program at the University of Calgary. His major will be an honours B.Sc. in geophysics, along with a minor in geology. Michael decided to enrol in geophysics not really knowing much about it; just knowing that he loved math and physics. It wasn't until second year that he "really figured out what it was, but I'm so glad that I picked geophysics as my degree". At the moment, Michael is completing his undergraduate thesis, looking at the utility of optic fibre and seismic data in detecting the vibrational energy of structures, road traffic, and city transit.

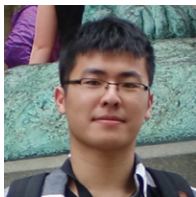


## Manuel Alejandro Jaimes Caballero

Memorial University of Newfoundland

**\$2,000 Sponsor: Anonymous CSEG  
Foundation Donor**

Alejandro hails from Bucaramanga, Santander, Colombia. He is currently a 4th year undergraduate at Memorial University of Newfoundland majoring in Earth Sciences and Physics and minoring in Mathematics, and plans to further his studies in North America. He has developed interests in the theoretical and computational aspects of seismic wave propagation, and how we can use mathematical and computational tools to improve our understanding of seismology. He recently completed his bachelor's thesis on the study of coda waves using field data from Iceland under the supervision of Dr. Alison Malcolm. Additionally, he enjoys spending his free time doing science outreach activities through *Let's Talk Science*.



## Jingchuan Wang

University of Alberta

**\$2,000 Sponsor: Anonymous CSEG  
Foundation Donor**

Jingchuan Wang received his Honours B.Sc. degree in Geophysics from the University of Calgary and B.Sc. degree in Geophysics from the China University of Petroleum. Currently, he is pursuing a Ph.D. in Geophysics at the University of Alberta under the supervision of Dr. Yu Jeffrey Gu. His research focuses on seismic inversion and crustal imaging. Additionally, he also works on structural monitoring at CO<sub>2</sub> sequestration sites using noise correlation. In his spare time, Jingchuan enjoys badminton, hiking and traveling.





## Masoud Aali

**Dalhousie University**

**\$2,000 Sponsor: Athena Resources**

Masoud Aali earned a BEng. in Petroleum Exploration Engineering from the Petroleum University of Technology in Iran, a MSc. in Exploration Geophysics from Gubkin Russian State University of Oil and Gas in Russia, and is currently pursuing a Ph.D. in Geophysics at Dalhousie University under Dr. Mladen Nedimovic. His primary research interests include quantitative seismic interpretation and rock physics modeling. His current research focuses on using high resolution seismic data to characterize eustatic changes in Miocene sediments offshore the New Jersey continental margin. Masoud is planning to complete his Ph.D. studies soon and is looking forward to tackle new geophysical questions in his academic and professional life. He considers himself an explorationist at heart and enjoys hiking along the beautiful coastline of Nova Scotia.



## Stephen Mosher

**University of Ottawa**

**\$2,000 Sponsor: Anonymous CSEG Foundation Donor**

Stephen Mosher has spent most of his life in Ottawa and from a young age he developed a curiosity for science. That curiosity led him to pursue a B.Sc. degree in physics at the University of Ottawa, during which he was introduced to geophysics and seismology. For his 4th year undergraduate honours project he worked with Dr. Pascal Audet and found he enjoyed seismological research immensely. Having a taste for the excitement that came with investigating seismological questions, he decided to further pursue a M.Sc. degree at the University of Ottawa and subsequently, a Ph.D. degree under Pascal's supervision. Stephen is now entering into the third year of his Ph.D. project at the University of Ottawa, his research currently focuses on using signal processing techniques and concepts from the field of machine learning to improve earthquake detection and location methods.



## Sara Pieczonka

**Queen's University**

**\$2,000 Sponsor: Imperial Oil**

Sara Pieczonka completed her Bachelor's degree in Geological Sciences at Queen's University in Kingston, Ontario. She is currently in her first year of a Master's of Science degree at Queen's University working under Dr. Alexander Braun in Applied Geophysics. Her research is on muon tomography, and how it can be used to model fluid migration in reservoirs. She will focus on modeling the bitumen depletion of SAGD (steam-assisted gravity drainage) reservoirs over time, using forward and inverse modeling to characterize the magnitude and geometry of reservoir depletion. She is interested in the inverse modeling of multiple datatypes, and will conduct a joint inversion using muon and gravity data. Sara's personal interests include camping, sailing and watching *Survivor*.



## Jocelyn Song

**SAIT**

**\$1,000 Sponsor: CSEG Ski Spree and WiSE Golf Tournament**

Jocelyn Song is a second-year student in the Geoscience Information Technology program at SAIT, Calgary, Alberta. Initially attending the program due to her interest in computers, she quickly became fascinated by geophysics and geology. After graduating, Jocelyn hopes to pursue a career in the oil and gas industry.

