

## Eric J. Goldfarb

### EDUCATION

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**PhD Geophysics** | GPA: 3.9 2020 (Expected)  
The University of Texas at Austin. Jackson School of Geosciences. Austin, Texas

**Research Focus:** *Wave attenuation at seismic frequencies, numerical modelling, and digital rock physics with micro Computed Tomography (CT) scanning*

**Committee Members:** Nicola Tisato (advisor), Gary Mavko, Richard Ketcham, Sean Gullick, and Kyle Spikes

**Master's in Mining Engineering** | GPA: 3.7 2015  
Queen's University. Department of Mining Engineering. Kingston, ON, Canada

**Bachelor's of Geological Science and Engineering** 2014  
Queen's University. Department of Geological Science and Geological Engineering. Kingston, ON, Canada

### PEER REVIEWED WRITINGS

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4. M. Ramos, D. N. Espinoza, **Eric J. Goldfarb**, N. Tisato, S. E. Laubach, and C. Torres-Verdin, "Microstructural controls on elastic anisotropy of finely laminated mancos shale," in *Geophysics Journal International*, Society of Exploration Geophysicists, /textitIn Review
3. **Eric J. Goldfarb**, K. Ikeda, and N. Tisato, "Constraining the effect of image resolution in digital rock physics without segmentation," in *SEG Technical Program Expanded Abstracts 2018*, pp. 3688–3692, Society of Exploration Geophysicists, 2018
2. **Eric J. Goldfarb**, K. Ikeda, and N. Tisato, "Segmentationless digital rock physics using different effective medium theories," in *SEG Technical Program Expanded Abstracts 2017*, pp. 3908–3913, Society of Exploration Geophysicists, 2017
1. K. Ikeda, **Eric Goldfarb**, and N. Tisato, "Static elastic properties of berea sandstone by means of segmentation-less digital rock physics," in *SEG Technical Program Expanded Abstracts 2017*, pp. 3914–3919, Society of Exploration Geophysicists, 2017

### CONFERENCE PROCEEDINGS

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7. K. Ellins, D. Thomas, D. Campos, S. W. George, **Eric Goldfarb**, A. Kotowski, L. McCall, N. Soltis, E. Stocks, and V. Wright, "Using the star legacy cycle to promote student-centered field learning in geoforce and stemforce 12th grade summer academies," in *GSA Annual Meeting Abstracts*, Geological Society of America, 2018
6. D. Thomas, K. Ellins, D. Campos, S. W. George, **Eric Goldfarb**, W. Kim, A. Kotowski, L. McCall, and V. Wright, "Student exploration of geoscience careers through challenge-based field learning in geoforce and stemforce 12th grade summer academies," in *GSA Annual Meeting Abstracts*, Geological Society of America, 2018

5. **Eric J. Goldfarb**, K. Ikeda, and N. Tisato, "A new method to supplement seismic inversion tomography; computed tomography scanning of drill cuttings to estimate elastic properties," in *Seismology Student Workshop*, Lamont-Doherty Earth Observatory at Columbia University, 2018
4. **Eric J. Goldfarb**, K. Ikeda, and N. Tisato, "Changes in ultrasonic velocity from fluid substitution, calculated with laboratory methods, digital rock physics, and biot theory," in *AGU Fall Meeting Abstracts*, 2017
3. N. Tisato, K. Ikeda, **Eric J. Goldfarb**, and K. T. Spikes, "Segmentation-less digital rock physics," in *AGU Fall Meeting Abstracts*, 2017
2. K. Ikeda, **Eric Goldfarb**, and N. Tisato, "Calculating effective elastic properties of berea sandstone using segmentation-less method without targets," in *AGU Fall Meeting Abstracts*, 2017
1. **Eric J. Goldfarb**, M. Ramos, and N. Tisato, "Using computed tomography to map orientation, quality, and quantity of microfractures in shale samples, before and after induced failure from triaxial testing," in *CGU Spring Meeting*, Canadian Geophysics Union, 2017

## TEACHING EXPERIENCE

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### TEACHING ASSISTANT CLASSES

**Introductory Geology. The University of Texas at Austin.** Fall 2016 and Spring 2018

Motivating undergraduates the importance of deep time, mineral and rock composition, geologic resources, and Earth's interior in a laboratory setting.

**Geophysics for Geoscientists. The University of Texas at Austin.** Spring 2017

Responsible for equipment, storage, and operation of equipment including gravimeter, seismic resources, GPS, and magnetometer. The role involved teaching students the relevance of the tools in a lecture setting, as well as organizing exercises to test them out.

**Field Camp. The University of Texas at Austin.** Summer 2017

Assisted in the smooth operation of a 3 week trip in Montana, Utah, and New Mexico. Responsibilities included work from 6 am to 10 pm each day, teaching mapping skills, navigation in the field, cooking, and general organization of a large group.

**Mining and Sustainability. Queen's Univeristy.** Fall 2014

Leading students in discussion sections, in order to understand the complex policy issues related to environmental, ethical, and technical challenges in the natural resource industry.

**Earth Systems Engineering. Queen's University.** Fall 2013

Organizing and leading lab exercises related to geological engineering applications (e.g. tunneling, mining, environmental resources).

### OTHER TEACHING

**Educational Coach with Geoforce.** 2018

This program is designed to help high school students from disadvantaged backgrounds learn about science and go to university. Duties similar to that of a geology instructor, where lessons and instruction is provided for week long experience, plus mentoring students about science, college, and life

**Ski Instructor.** Big White, British Columbia, Canada 2016

Over 100 days on the snow, teaching children how to love the sport of skiing.

**Sailing Instructor.** Queen's University, Kingston, Ontario, Canada  
Teaching peers how to sail two days a week each fall in the waters of Lake Ontario.

2012-2014

## COMMITTEES

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**Representative to the Graduate Student Assembly** Fall 2017 - present  
Voting member on behalf of the Jackson School of Geosciences to the university wide body. This assembly represents all graduate students at the department level

**Graduate Student Executive Committee Officer** Fall 2017 - present  
GSEC is the graduate student group in charge of academic affairs such as the annual poster symposium and student town hall meeting, as well as social events like the Christmas Party.

**Queen's University Teaching Award Committee** 2014 and 2015  
Member of the committee that designated the university's prestigious teaching award.

## FIELD EXPERIENCE

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### FIELD TRIPS WITH LEADERSHIP EXPERIENCE

Year	Duration (Weeks)	Trip	Location	Role
2018	1	Dinosaur Excavation	Montana	Research Assistant
2018	2	GeoFORCE Summer Academy	Central Texas	Educational Coach
2017	3	Geology Field Camp	Montana, Utah, New Mexico	Teaching Assistant

### MAJOR FIELD TRIPS (AS A STUDENT)

Year	Duration (Weeks)	Course	Location
2018	1	Marine Seismic Survey (Field School)	Gulf of Mexico
2014	1	Geophysics Field School (learn to conduct large surveys)	Central Ontario
2014	1	Grenville front and Rodinian Coast Trip	Ontario and Quebec
2013	1	Geological Engineering Field School (the mining cycle sites)	Northern Ontario
2012	2	Geology Field camp (mapping)	Quebec
2011	1	Field Methods	Eastern Ontario

## PROFESSIONAL MEMBERSHIPS

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Member: American Geophysical Union  
Society of Exploration Geophysicists  
American Association of Petroleum Geologists