

# CHAU DUC MINH HA

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## EDUCATION

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Bachelor of Science in Geophysical Engineering, minors in Physics and Math  
Montana Tech of the University of Montana

Expected: 05/17  
GPA: 3.82

## RESEARCH INTERESTS

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- Full-waveform inversion (FWI): anisotropic and elastic approach.
- Least-squares reverse time migration: develop new algorithms/workflow to reduce cost function.
- Seismic attribute analysis for reservoir studies.
- Inverse scattering: study wavefield focusing algorithms for 3-D seismic dataset.

## RESEARCH & WORK EXPERIENCES

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### Summer Internship

**Center for Seismic Imaging and Hydrocarbon Prediction (CSI), Seri Iskandar, Malaysia** 05/2016-08/2016

- Performed finite-difference modeling of 2-D constant density acoustic wavefield using parallel processing with Matlab.
- Applied the synthetic seismograms to the study of seismic imaging algorithms.

### Undergraduate Researcher

**Montana Tech Geophysical Engineering Senior Design, Montana Tech, Butte, Montana** 01/2016-05/2016

- Mapped a buried slag at the Parrot Complex Area – a federal superfund site.

**Montana Tech Undergraduate Research Program, Montana Tech, Butte, Montana** 08/2015-04/2016

- Quantified the response of a piezoelectric transducer under the application of different strains.
- Integrated a pair of piezoelectric transducers into running shoes as a potential method for charging cell phone batteries.

### Summer Internship

**Fairfield Nodal Vietnam, Ho Chi Minh City, Vietnam** 05/2014-08/2014

- Performed NMO and migration velocity analyses.
- Developed velocity models for migrations.

## PRESENTATIONS

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**American Geophysical Union Fall Meeting** 12/2016

- Presentation is featured in GeoSpace, a blog on Earth and Space Science of AGU.
- Abstract title: “Geophysical Investigation of Buried Slag at the Parrot Tailings Site, Butte, MT.”

**Montana Tech TEXPO** 05/2016

- Won the best poster presentation among a total of 200 poster presentations in 05/2016.
- Abstract title: “Geophysical Investigation of Buried Slag at the Parrot Tailings Site, Butte, MT.”

**Montana Academy of Sciences Annual Meeting** 03/2016

- Abstract title: “Piezoelectric Energy Harvesting System.”

## RELATED COURSEWORK

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Seismic Processing	Inversion	Partial Differential Equations
Seismic Prospecting	Linear System	Numerical Computing

## TECHNICAL SKILLS

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- Programming Languages: Matlab, C
- GIS Software: ArcMap, ArcScene
- Graphic Design Packages: GIMP, Adobe Photoshop, Adobe Illustrator
- Seismic Processing Software: Seismic Vista, GeoGiga Seismic Pro, Matlab (via the CREWES package)
- Operating Systems: Red Hat Linux, Mac OS, Windows OS
- Field Equipment: Leica GPS System, Lacoste & Romberg Gravimeters

## SCHOLARSHIPS

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<u>SEG/Anadarko Scholarship</u>	2016
• Appeared in the SEG Foundation Newsletter Spotlight.	
<u>SEG/Shell E&amp;P and SEG/Gerald W. Hohmann Memorial Scholarships</u>	2015
• Awarded two different scholarships from the SEG foundation.	
<u>Billings Geophysical Society Scholarship</u>	2015 & 2016
• 2 scholarships awarded to geophysics students in Montana each year.	
<u>BP Geophysical Engineering Scholarships</u>	2014 & 2015
• Awarded scholarships from BP for two consecutive years.	

## EXTRACURRICULAR ACTIVITIES

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| • Represented Montana Tech in the Denver Geophysical Society Student Challenge Bowl in conjunction with the AAPG/DGS 3D Seismic Symposium. | 03/02/2016 |
| • Volunteered for Montana Tech Regional Science Fair as a Life Science judge.  | 02/23/2016 |

## LANGUAGES

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Vietnamese (Native)

English (Fluent)