

# May (Han) Deng

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🗣 English, Mandarin, Hokkien and Indonesian

## COMPUTER SKILLS

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IHS Petra, state Oil & Gas websites, ArcMAP, Decision Space Geoscience, ComMIT tsunami modeling, C++, MATLAB, Java, Microsoft products, Generic Mapping Tools, Illustrator, CoralDraw, Kappa Rubis, Petrel Geology & Modeling

## WORK EXPERIENCE

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- 02/2018 – Present**     **Geologist**, Highlands Natural Resources, Denver, CO
- Generating exploration prospects and projects including but not limited to oil & natural gas, helium, nitrogen, hydrogen, uranium, vanadium, and gas applications
  - Analyzing and mapping well logs, cross sections, geology, reservoir properties and reserves in western Kansas, southern Colorado, Williston Basin, and Uravan Mineral Belt with IHS Petra
  - Providing geological interpretation and evaluation for acquisition
  - Assisted in planning, geosteering and mudlogging wells which successfully landed in the Niobrara formation. Two of the wells have top 5% 6-month production in the DJ Basin.
  - Working with research staff and mentoring an intern from the University of Oxford for research of nitrogen origin in Kansas
  - Conducted and analyzed an efficiency experiment of our N<sub>2</sub> well gas, Hydrogen-Feed™, on plant growth. Wrote the report, showed a yield increase, by 18%, and terpene content increase.
  - Promoting resource proposals to domestic and international investors
- 04 - 10/2017**     **Geological Intern**, Highlands Natural Resources, Denver, Colorado
- Compiled reservoir characteristics and productions of Eagle Ford Shale and Austin Chalk plays
  - Compared Top 5 operators' assets in Eagle Ford Shale play to develop prospects
- 05 - 06/2016**     **Geological Intern**, Project: Optimization of Non-conventional Niushan Bio-gas Field in 1940s, Exploration & Development Research Institute, CPC Cooperation, Taiwan
- Analyzing reservoir properties by log interpretation and production reports
  - Numerical modeling of reservoir engineering by Kappa (Rubis)
  - Static reservoir geology modeling by Petrel Geology & Modeling
- 04/2014 – 07/2015**     **Research Assistant**, Tectonic Geochemistry Laboratory, National Taiwan University (NTU)
- U-Pb dating of Zircon by Laser Ablation Inductively Coupled Plasma Mass Spectrometry
  - <sup>87</sup>Sr/<sup>86</sup>Sr and <sup>143</sup>Nd/<sup>144</sup>Nd isotopic ratio determination by Thermal Ionization Mass Spectrometry
- 2011 – 2015**     **Major Coordinator and Teaching Assistant**, Course: Introduction to Field Geology (II), NTU
- Led 19 TAs and 16 professors, and taught over 400 students in geological field trips
  - Coordinated lessons, activities, assignments and final exams
- 08/2012**     **Mud Logger**, Project: Carbon Capture and Storage Pilot Drilling Project, Ministry of Technology &  
**– 04/2013**     Science, Taiwan

## RESEARCH EXPERIENCE

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- 2016 – 2018**      **Master Thesis: Assessing Tsunami Risk in SW Java: Paleo-Tsunami Deposits and Inundation Modeling**, Brigham Young University. Link: <https://scholarsarchive.byu.edu/etd/7310/>
- Analyzed years, frequency and behavior of the megathrust and tsunami events by tsunami inundation modeling, field works and sediment C<sup>14</sup> dating.
  - Assessed tsunami risk and evacuation plans along the shore on ArcMap
- 11/2012 – 12/2012**      **Volcano Monitoring of the Qixing Mountain in the Yangmingshan National Park, Taiwan**, NTU
- Collected and analyzed gas samples from the Hsiaooukeng fumarole and soil by Quadrupole Mass Spectrometer and Ion Chromatography
- 06/2011 – 08/2011**      **Alluvial fan and Terrace Analysis and Their Implications on Millennial-Scale Periodic Geologic Events in Southern Longitudinal Valley, Eastern Taiwan TIGP-SIP**, Academia Sinica, Taiwan
- Field works to confirm the terraces' composition and position
  - Analyzed Digital Elevation Model data of the alluvial fans and terraces by ArcMap
  - Found frequency and range of the geological cataclysm

## EDUCATION

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- 09/2015 – 04/2018**      M.S., Brigham Young University (BYU), Geology Major. Advisor: Dr. Ron Harris, GPA: 3.7/4.0
- 09/2009 – 01/2013**      B.S., National Taiwan University (NTU), Geosciences Major, Economics Minor, GPA: 3.9/4.0

## SCHOLARSHIPS

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- 07/2016**      The GSSI Student Grant, American Geophysical Union (AGU)
- 11/2018**      Tuition scholarship, College of Physical & Mathematical Sciences-Geology, BYU
- 2016 – 2017**      James & Sally Elison Scholarship, College of Physical & Mathematical Sciences-Geology, BYU
- 2011 - 2013**      Ke Dian and Qin Xian Yan Scholarship of Ministry of Education • Scholarship of the Tucheng Farmers' Association (**2 times**) • Zi Min Tan Commemorative Scholarship, Taiwan

## AWARDS AND HONORS

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- 06/2013**      **Dean's Award**, College of Science, NTU
- 2011 – 2013**      **Presidential Award**, NTU (**4 times**)
- Jan. 2013**      Being interviewed and reported on *Global Views Monthly*
- May 2012**      **First Prize** at Nationwide Earth Sciences System Contest, National Central University, Taiwan

## COMMUNITY SERVICE

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- 01/2013**      **Organizer and Narrator**, Volcano Activity and Hot Spring of the Tatun Volcanoes Exhibition, NTU
- Fall 2011**      **Volunteer**, Education Support for Disadvantaged Children, Ministry of Education, Taiwan
- Spring 2011**      **Volunteer**, Popular Science Education Program, Ministry of Science and Technology, Taiwan

## EXTRACURRICULAR ACTIVITIES

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- 2017**      **Vice President**, AAPG Student Chapter, BYU
- 2011 & 2012**      **Coordinator**, Summer Geosciences Camp (for high school students), NTU
- 09/2010 – 06/2012**      **President**, Zhonghe Alumni Association, NTU
- 05/2011**      **Major Coordinator**, Evening with the Dept. of Geosciences, NTU

## PUBLICATION

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- 2013**      **The Development of the Hsinwulu River Fan and Terraces in Chihshang**, *Taiwan Geology magazine*

