

# Shan YE

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## EDUCATION

09/2018 – 05/2022 (exp.)	<b>The University of Wisconsin - Madison</b> , Madison, WI PhD in Geoscience (Paleoclimate, RA in EarthCube Project)
08/2016 – 05/2018	<b>The University of Tulsa</b> , Tulsa, OK MS in Geoscience (Geomechanics, Petroleum Geology, Spatial Analysis), GPA 3.89/4.0 President of AAPG TU Chapter, 2017 - 2018 Thesis: Finite Element Analysis of Fold Geometry in a Heterogeneous Matrix
09/2013 – 08/2015	<b>The University of Michigan</b> , Ann Arbor, MI Earth and Environmental Sciences, BS received in August 2015 <ul style="list-style-type: none"><li>▪ <b>University Honors</b>, GPA 3.516/4.0</li></ul>
08/2011 – 05/2013	<b>The Pennsylvania State University</b> , University Park, PA Geographic Information Science, GPA 3.69/4.0 <ul style="list-style-type: none"><li>▪ Major GPA: 3.75/4.00, Completed all requirements in GIS major</li><li>▪ <b>Dean's List</b> in 3 successive semesters</li></ul>

## SELECTED EXPERIENCES

05/2014 – 08/2014 & 09/2015 – 05/2016	<b>Research Assistant Intern</b> at Institute of Geology and Geophysics Chinese Academy of Sciences, Beijing, China <ul style="list-style-type: none"><li>▪ Geophysics research program in shale gas</li><li>▪ Responsible for literature review on shale gas reservoir and related research methodologies</li></ul>
10/2013 – 12/2013	<b>GIS Analyst</b> at University of Michigan <ul style="list-style-type: none"><li>▪ Collect and manage data from oil wells across the Lower Peninsula, Michigan</li><li>▪ Generate models of Dundee Limestone and find its intersection with the bottom of Lake Michigan</li></ul>
08/2012 – 12/2012	<b>Teaching Intern</b> at The Pennsylvania State University, Pennsylvania GEOG363 (GIScience core course) – Lab instruction for ArcGIS

## CONFERENCES & COMPETITIONS

03/2017	<b>Imperial Barrel Award</b> held by AAPG, Oklahoma City, Oklahoma <ul style="list-style-type: none"><li>▪ Represented University of Tulsa in the competition</li><li>▪ Used given seismic and well log data to locate oil and gas prospects in New Zealand</li></ul>
04/2013	<b>Association of American Geographers 2013 Annual Meeting</b> , Los Angeles, California <ul style="list-style-type: none"><li>▪ Presentation on <i>GIS Application on Mining</i></li></ul>

## SELECTED PROJECTS & RESEARCH

On-going	<b>GeoDeepDive: IRD data extraction</b> (NLP, ML)
On-going	<b>Macrostrat database age model evaluation</b>
Spring 2018	<b>Spatial modelling of induced earthquakes in Oklahoma</b> (Spatial Analysis, Geomechanics)
Fall 2016	<b>Geomechanics of the M5.8 earthquake in Pawnee, Oklahoma</b> (Geomechanics, Tectonics)
Winter 2015	<b>Automatic song-writing tool</b> (NLP Machine Learning)
Fall 2013 – Fall 2014	<b>The Worldwide Education Impact:</b> with the Case Study of Detroit Public Schools

## SKILLS

<b>Computer Skills</b>	<b>Programming:</b> C++, Java, Python, HTML/CSS, JavaScript, VB, MATLAB, R <b>GIS:</b> ArcGIS, GeoDa, QGIS, ENVI <b>Petroleum:</b> Petra, Petrel, Kingdom <b>Others:</b> Microsoft Office (Word, Excel, Access, PowerPoint, Publisher), Stella, Minitab, Mathematica, COMSOL, Photoshop, CorelDRAW, 3ds Max, ABAQUS
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**Languages**                      Mandarin Chinese, English

#### ORGANIZATIONS & ACTIVITIES

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**National:**

11/2012 – present            **Association of American Geographers (AAG)**  
10/2013 – present           **Geological Society of America (GSA)**  
10/2016 – present           **American Association of Petroleum Geologists (AAPG)**  
04/2017 – present           **Society for Sedimentary Geology (SEPM)**

**School:**

09/2013 – 05/2015           **Global Scholars Program**, University of Michigan  
                                     ▪ Student collaborative group facilitator (teaching assistant)  
08/2012 – 05/2013           **GIS Coalition**, Penn State University  
09/2011 – 05/2013           **RoundTabler**, the Academic Organization of History at Penn State University