

Yuqian(Philomena) Gan

Curriculum Vitae

Contact information:

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EDUCATION

Master of Earth Sciences, University of Oxford		2012-2016 (Bachelor & Master's degrees)
Relevant Courses:	Sedimentary Basins Sedimentary Petrology Natural Resources	Environment and Stratigraphy Geophysical Methods Mathematical Tools
Field Studies:	<u>Bermuda</u> : palaeo- and modern carbonate geology and shelf platforms <u>Carboneras, Spain</u> : Sedimentary basins <u>Dorset, England</u> : Petroleum geology, Basin formation <u>Arran, Scotland</u> : Sedimentary geology <u>Assynt, Scotland</u> : Structural geology and metamorphic petrology <u>Hangzhou, China</u> : Igneous petrology; with Zhejiang University, China) <u>Trinity Ophiolite, California</u> : Mantle geology, with Stanford University GES-190)	
Forth Year Project: <i>Contourites and Cenozoic ocean currents offshore New Zealand</i>	Using 3D seismic and well log data to determine the timing and distribution of contourite deposits in the Great South Basin, deducing the strength and direction of the sediment-carrying ocean current, thus reconstructing the Cenozoic ocean current in the Southwest Pacific and its link to regional tectonic events. Project ongoing.	
Third Year Essay: <i>Sandstone Injectites: An Overview</i>	A 4000-word review essay on the current understanding of sandstone injectites by looking at existing theories and experiments on sandstone injectite formation. Also suggested direction of future research.	
Mapping Project: <i>Volcaniclastic and shallow marine deposits of Llanberis and Nant Peris, North Wales</i>	The mapping area near Snowdonia National Park, North Wales covered 14km ² of volcaniclastic and sedimentary rocks in a transgressive margin at the southern boundary of the Iapetus Ocean from Ediacaran to early Ordovician, overprinted with recent Quaternary glaciations. The mapped area gives insight into relative sealevel rise during that period, reflecting the opening of the Iapetus Ocean in the Early Palaeozoic.	

Research Experiences

Researcher , Shell Geoscience Laboratory, University of Oxford <i>Supervisor: Professor Joe Cartwright</i>	July-Aug 2015 (eight weeks)
Using 2D and 3D seismic data to map the distribution of fluid escape pipes in the Great South Basin, New Zealand, and evaluate their significance. <i>Manuscript in preparation.</i>	
Seismic Interpreter , Shell, Beijing	Dec 2014- Jan 2015 (six weeks)
Use 3D seismic data to evaluate the reservoir potential of Pleistocene basin floor fans in Yinggehai Basin, South China Sea. Proposed a geological model for the basin floor fan deposition.	
Geophysics Researcher , Perm State University, Russia	July-Aug 2013 (two months)
Collected field data using geophysics tools, including resistivity measurers and Ground Penetrating Radar of both large scale (over 1km) low-resolution and small scale (50m) high-resolution areas. Processed and interpreted data using geophysical software to study sinkholes and evaluated future sinkhole risks of Berezniki (population 160,000) and Sarkaevo (population ca. 1000).	

Associations (current)

Elected candidate fellow, Geological Society of London
Student member, Geological Society of America
Student member, Petroleum Exploration Society for Great Britain
Student member, Oxford Geology Group

Responsibilities & Social Works

Social Secretary & Archivist, Oxford University Exploration Club 2014-present
Planning and organizing social events among and beyond club members. Extending club liaisons, maintaining and managing club archives.

Publicity officer & Webmaster, Oxford University Space and Astronomy Society 2014-present
Devising and applying innovative ideas to increase the publicity of the society. Maintaining and developing the Society's website and social network accounts.

Rower, University College Boat Club, Oxford 2012-2013
Regular training and seasonal contests with a team of nine.

Volunteer for Science Saturdays, Museum of Natural History, Oxford 2012-2013
Conducted hands-on activities in Entomology, Geology, Mineralogy, and Zoology to encourage children to investigate specimens and introducing them to natural sciences.
Guided children through a series of activities with questions and demonstrations, kindle their interest in nature and science

Co-founder, Crystal Heart Charity, Shanghai 2011-2012
Founded and oversaw the running of the non-profitable trading group.
Designed activities for the charity, evaluated the market, delegated selling tasks.
Raised RMB 500(80USD), all donated to a local charity helping children in need.

Volunteering English Teacher, Shanrong Primary School, Shanghai 2010-2012,
Responsible for a Grade 3 (10-year-old) class of 50 students, teaching children of migrant workers from disadvantaged backgrounds.
Created effective lesson plans, guided students through games and plays with fellow volunteers.
Sparkled interested in English amongst the children.
Coordinated with local teachers to maximize the teaching within the syllabus as well as extending extra-curricular topics.

Awards

Exhibitioner, University College, Oxford 2015, 2014
Awarded on academic excellence of the year.

Master's Scholarship, University College, Oxford 2013
A £2000 fund to explore the geology of Southwest US (CA, NV, AZ, UT) through a 5000km road trip.

BP Internship Scholar 2012
A £2000 awarded to sponsor the geophysics internship in Russia.

Skills

Matlab	Microsoft Offices
ArcGIS	Adobe Illustrator
Petrel 2014	Certified First Aider
LaTex	Certified Teacher in Chinese