



## RÉSUMÉ

## Long Tan Dang

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**Address:** Leeming, Western Australia, Australia 6149  
**Location:** Perth, WA  
**Mobility:** Available and willing to travel  
**Nationality:** Australian  
**Marital status:** Single  
**Health:** Excellent, non-smoker  
**Email:** admin@ausgeos.com.au

## QUALIFICATIONS

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**2006** **Graduate Certificate in Petroleum Engineering**, University of Western Australia, Perth, Western Australia  
**2002** **Master of Commerce in Electronic Commerce** Curtin University of Technology, Perth, Western Australia  
**2001** **Graduate Diploma in Information Technology**, Curtin University of Technology  
**1995** **Graduate Diploma in Geophysics**, Curtin University of Technology  
**1994** **Bachelor of Science – Physics**, Curtin University of Technology

## STRENGTHS

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- Strong technical background in geophysics and information technology
- Ability to perform and prioritize multiple tasks
- Strong computer skills including scripting and application development
- Self-motivated, able to meet deadlines and work without supervision
- Strong research and analytical skills
- Highly competent in interpretation and mapping software packages
- Ability to work effectively in a collaborative environment
- Holder of multiple degrees

## EXPERIENCE SUMMARY

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Long has over 16 years of experience in the Geophysics industry, with 4 years in the seismic data processing sector and 12 years in the Quantitative Interpretation field. Long has worked both in the onshore and offshore environment as well internationally in countries such as USA, UK, Singapore and Australia. In addition to the geophysical skills that Long has acquired while working for Western Geophysical, PGS, BHP Billiton Petroleum and recently Santos Limited, he also has strong computer skills including, database development, web-based application development, Java programming and networking.



Long is a highly motivated and flexible individual. He is keen to work on projects that will challenge him technically and professionally and to contribute to the success of each project. He wishes to expand his skill-set and broaden his contribution within the oil and gas industry.

## EXPERIENCE

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**March 2015 - Present: - AusGeos Pty Ltd. Exploration Consulting**  
**Position: Senior Consulting Quantitative Interpretation Geophysicist**

### Responsibilities/Duties:

- QI Advisory and training

**September 2010 – March 2015: - Santos Ltd, Adelaide**  
**Position: Senior Quantitative Interpretation Geophysicist**

### Responsibilities/Duties:

- Perform model base inversion (Delivery)
- Generate Seismic facies cube
- Data conditioning in preparation for inversions
- Conduct rock physics modeling and analysis for DHI/AVO regional exploration, characterization and risk assessment of seismic amplitude prospects, forward modeling & calibration, AVO interpretation, seismic inversion
- Make qualitative and quantitative amplitude assessment.
- Quantify uncertainties in the volumetric calculation of reserves/resources as well as estimation of risk
- Perform velocity Modeling and Time-to-Depth conversion
- Define a quantitative interpretation project in support of geological and business requirements
- Assess feasibility compare observed seismic differences with prediction.
- Develop QI methods for unconventional reservoir (shale gas and coal bed methane).
- Generate Vp, Vs and density volumes from simultaneous inversion for the construction of a 3D geo-mechanical stress field model
- Create Young's Modulus/Poisson's ratio volume to identify fractured zones sweet spots for shale gas plays.
- Plot fracture gradient against brittleness ratio
- Model AVO Responses for coal bed methane
- Model variable gas content in coals
- Contribute to knowledge management
- 2D/3D seismic interpretation (only recently)
- Define and verify subsurface well targets.
- Provide QI support for field development projects
- Mentor junior staff

**November 2003 – July 2010: BHP Billiton Petroleum - Perth**



## **Position: Quantitative Interpretation Geophysicist**

### **Responsibilities/Duties:**

- Perform Bayesian Wavelet derivation
- Run model base inversion (Delivery)
- Produce Sparse Spike Acoustic and Elastic Inversions
- Derive rock physics properties trending
- Perform Stochastic AVO modelling
- Perform amplitude analysis
- Run spectra decomposition
- Perform well ties with seismic data and construct synthetic seismic traces

## **April 2000 – November 2000: PGS Exploration Processing, UK (London)**

### **Position: Seismic Data Analyst**

### **Responsibilities/Duties:**

- Process 3-D Seismic Data from the North Sea (Quads 35 Irish Sector) using PGS in house software packages such as CMUI, Velpack, Tigress and Genesys
- Run Radon production jobs using CMU
- Pick and QC velocities using Velpack
- Provide velocities information for clients
- Provide communication link and information to the boat, Ramform Viking
- Geophysical training, flex binning, DMO and pre-stack migration
- Update project schedule and information on the project Website
- Client interaction

## **January 1998 – March 2000: PGS Exploration Processing, Singapore**

### **Position: Onboard Geophysicist**

### **Responsibilities/Duties:**

- Ensure the acquired seismic data is being produced to the required standards
- Monitor seismic data using PGS in house software packages such, Cobra, CMUI and Landmark software package like ProMAX
- Process 3-D seismic data
- Pick 2D and 3D velocities
- Copy field data tapes
- Perform system backup
- Perform system administration tasks
- Upgrade and install new software
- Use Unix commands and scripts and manage computer system and data storage
- Write end of surveys and crew change reports
- Assist Seismic crew in streamer deployment and recovery operations
- Member of the FRC, workboat and fire fighting crews

## **July 1997 - December 1998: PGS Exploration Processing, UK (London)**



## **Position: Onboard Geophysicist**

### **Responsibilities/Duties**

- Geophysics and software training
- Learn how to apply wave propagation theories to reconstruct seismic data
- Learn how to select data processing parameters
- Trained to utilize knowledge of wavelet processing, noise attenuation techniques and software for wave velocity model building
- Run 3-D Radon production jobs

## **December 1996 – June 1997 Western Geophysical, Australia (Perth)**

### **Position: Seismic Data Analyst**

#### **Responsibilities/Duties:**

- Process 2-D Seismic Data from field tapes to final products using Western Geophysical in house software packages such as OMEGA and IVP via UNIX workstations
- Pick 2D velocities using IVP software
- Ensure a high quality product is delivered in the required time frame
- Committed to QA and QC of seismic data
- Working within a progressive team environment
- Set up velocity QC session for clients
- Preparing and presenting data to clients
- Client interaction.

## **GEOPHYSICAL SOFTWARE KNOWLEDGE**

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- Hampson Russell (Strata, AVO, Emerge) – advanced
- Rokdoc – intermediate
- SeismicUnix - intermediate
- ProMax – intermediate
- Delivery: stochastic inversions – advanced
- Paradigm interpretation – advanced
- Petrosys – intermediate
- Landmark interpret – intermediate
- Petrel – beginner
- DUG Insight – beginner

## **MEMBERSHIPS**

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Member of the Australian Society of Exploration Geophysicists (ASEG)  
Member of the European Association of Geoscientists & Engineers (EAGE)  
Member of the Petroleum Exploration Society of Australia (PESA)

## TRAINING

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- 2014** Multi-Azimuth Seismic AVO analysis and interpretation
- 2012** Structural Geology for Petroleum Exploration – Professor Ken Mclay
- 2007** Advanced Quantitative Interpretation Course – Michael Glinsky and David DeMartini, Houston Texas
- 2007** Borehole Seismic & Sonic Workshop – Leon Dahlhaus, Sergei Tcherkashnev and Frazer Barclay, Perth WA
- 2005** Basin Analysis Petroleum System & Play Fairway Mapping – Martin S. Norick, Perth WA
- 2002** Project Management Systems (Prince2) – Curtin University of Technology

## ACTIVITIES/HOBBIES

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Basketball, soccer, cricket, football, badminton, squash and rollerblading  
Work out at the gym, dancing, traveling, reading and meeting people

## LANGUAGES

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Oral & Written: Fluent in English  
Oral: Fluent in Cantonese, Mandarin and Vietnamese

## REFEREES

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**Name:** Guy Duncan  
**Position:** QI Specialist  
**Organisation:** BHPBilliton Petroleum  
**Address:** Level 42-46 144-148 St Georges Tce Perth, Western Australian 6000  
**Work Telephone:** +61 8 9338 4750  
**Email:** [Guy.Duncan@bhpbilliton.com](mailto:Guy.Duncan@bhpbilliton.com)

**Name:** Michael Glinsky, PhD  
**Title:** Research Manager Quantitative Interpretation  
**Organisation:** ION Geophysical  
**Address:** 4 Estambre Place Santa Fe NM 87508  
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