

# **Jerry Dunga, PhD Candidate/Project Geologist, Center for Exploration Targeting, University of Western Australia**

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## **Summary**

Competent professional geologist with more than 11 years of experience; 5 years in industry (Lihir open pit mine, Petromin Exploration) in Resource, Exploration and Mine Geology, and 6 years in research, publication and teaching capacity at University of Western Australia and University of Papua New Guinea.

Have training, mentoring and supervisory experience, can conduct detail research and data analysis as well as producing high quality written reports and publications in tier one journals (see e.g. here <https://doi.org/10.1007/s00126-020-00993-7>).

Area of interest and research lies in exploration targeting of mineral deposits, especially for gold and copper in porphyry, orogenic, skarn, carbonate-base metal Cu-Au, epithermal as well as other metalliferous deposits using the 'Mineral Systems' approach.

Currently undertaking PhD research at the Centre for Exploration Targeting, University of Western Australia. The study intends to establish source, nature, timing and evolution of ore forming fluids and processes leading to the formation of mineralised breccia pipes near Porphyry Cu-Au systems.

## **Work Experience**

2022 to Current: PhD Student at University of Western Australia

Project: Mineralised breccia pipes and their connection to porphyry Cu-Au systems: A case study of the New York breccia pipe in the Ok Tedi district, Papua New Guinea

Supervisors: Prof. Steffen Hagemann, Prof. Marco Fiorentini & Dr. Peter Pollard

Sponsors: Ok Tedi Mining Ltd & Society of Economic Geology (Student Grant)

2020 - 2021: Senior Project Geologist, Newcrest Mining Ltd, Lihir Operation, PNG

Team leader for Ore Delineation and Ore Characterisation Projects.

2017 - 2018: Grad. Cert of Education (Academic Practice) Student - part-time, James Cook University

2016 - 2021: Lecturer & Postgraduate Coordinator, Earth Sciences Division, University of Papua New Guinea

Responsible for undergraduate course content, design and delivery, and coordinating postgraduate programs.

2014 - 2015: MSc- Geoscience Student, University of Western Australia

Project: Structural setting, wall rock alteration and gold mineralisation of the Mt. Percy gold deposit, Kalgoorlie, Western Australia

Supervisor: Prof. Steffen Hagemann, Dr. Paul Duuring and Mr. David Nixon

Sponsor: Kalgoorlie Consolidated Gold Mines.

2011 - 2013: Mine/Resource Geologist, Newcrest Mining Ltd, Lihir Operation, PNG

Grade Control, Open- Pit Management, Ore Block modelling, Mine - Mill reconciliation, Sampling, Drill Sections and Wireframes, Resource Modelling.

2010 - 2011: Trainee Exploration Geologist, Petromin PNG Holdings Ltd

Grassroot-scale exploration in porphyry and epithermal environments using mapping, soil sampling, stream sediment sampling, geophysical surveys (IP), diamond drilling, camp construction and management.

## **Educational Qualification**

2022 to current: PhD, University of Western Australia WA, Australia, yet to be completed

2017 - 2018: Grad. Certificate of Education, James Cook University, QLD, Australia, completed

2014 - 2015: MSc - Geoscience, University of Western Australia WA, Australia, completed

2008 - 2011: BSc - Geology, University of Papua New Guinea, PNG, completed

## **Professional Membership**

Society of Economic Geologists

Society of Geology Applied to Mineral Deposits

Centre for Exploration Targeting, University of Western Australia

President of Western Australia's Student Chapter of Society of Economic Geology (SEG) and Society for Geology Applied

to Mineral Deposits (SGA) at UWA and Curtin universities  
Vice President of PNG Institute of Geoscientists