

## RENATO CORDANI

Phone: 55 11 3845-1842; [rcordani@reconsult.com.br](mailto:rcordani@reconsult.com.br)

Office: Rua Augusta, 2690 cj 322 01412-100 São Paulo SP Brazil

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<b>Experience</b>	<b>RECONSULT GEOFÍSICA – MANAGING PARTNER GEOPHYSICIST</b>
<b>1995 – 2020</b>	<ul style="list-style-type: none"><li>• Founder of the company (<a href="http://www.reconsult.com.br">www.reconsult.com.br</a>) in March 1995.</li><li>• Reconsult has been appointed by most mineral and oil/gas exploration experts in Brazil as their best Solution Provider in Geophysical Data Processing and Interpretation.</li><li>• Worked and collaborated with geophysical consulting and interpretation for several countries at governmental level: Brazil, Colombia, Congo Brazzaville, Angola and Sierra Leona.</li><li>• Published several technical papers and book chapters concerning potential methods, mineral exploration and airborne surveys.</li><li>• Collaborated on finding several mineral deposits around the World.</li><li>• Specialized consultant for the World Bank.</li><li>• Collaborated with hundreds of projects, performing the following roles:<ul style="list-style-type: none"><li>• Strategies for Mineral Exploration, survey design, execution and decision-making.</li><li>• Consultancy: from understanding the client objectives to delivering the final report.</li><li>• Data integration and drill hole location using GIS systems (Mapinfo, Arcview).</li><li>• Ground geophysics: acquisition, processing and interpretation of most methods applied to mineral and oil/gas exploration.</li><li>• Airborne geophysics: processing and interpretation of most methods applied to mineral and oil/gas exploration.</li><li>• Pre-processing and final processing for geophysical airborne companies.</li></ul></li></ul>
<b>1994 – 1995</b>	<b>RIO TINTO EXPLORATION – GEOPHYSICIST</b> Mineral exploration geophysicist with the following responsibilities: <ul style="list-style-type: none"><li>• Monitoring, raw data processing and interpretation of airborne geophysical surveys.</li><li>• Field operation: Induced Polarization, magnetics, electromagnetics and electric methods.</li><li>• Ground data processing.</li><li>• Correlated interpretation with local geochemistry and geology.</li><li>• Location of drill sites.</li></ul>
<b>Education</b>	<b>INSTITUTO ASTRONÔMICO E GEOFÍSICO DA UNIVERSIDADE DE SÃO PAULO</b>
<b>2003 – 2008</b>	<b>PhD in geophysics</b> with the following thesis: <i>“Virtual Pole from Magnetic Anomaly (VPMA): a procedure to estimate the age of a rock from its magnetic anomaly only”</i> .
<b>1995 – 1997</b>	<b>INSTITUTO ASTRONÔMICO E GEOFÍSICO DA UNIVERSIDADE DE SÃO PAULO</b> <b>Ms.Sc. degree in geophysics</b> , with the following essay: <i>“Experiment design in geophysics using the inverse theory. Applications in kimberlite exploration”</i> .
<b>1988 – 1993</b>	<b>INSTITUTO ASTRONÔMICO E GEOFÍSICO DA UNIVERSIDADE DE SÃO PAULO</b> <b>Graduation in geophysics.</b>

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**Main  
published  
papers**

- Moyano Nieto, I. Cordani, R. et al 2020. *Interpretation of geophysical anomalies for mineral resource potential evaluation in Colombia: Examples from the northern Andes and Amazonian regions*. Boletín Geológico, 46, 5–22, 2020
- Moyano Nieto, I. Cordani, R. et al 2020. Chapter “*Contribution of New Airborne Geophysical Information to the Geological Knowledge of Eastern Colombia*”. Geologia de Colombia. <https://doi.org/10.32685/pub.esp.35.2019.02>
- Cordani, R. 2016. Chapter “*Prospecção Geofísica no Brasil*” in the book “*Recursos Minerais no Brasil: problemas e desafios*”; Academia Brasileira de Ciências 2016.
- Cordani, R. 2013. *Virtual Pole from Magnetic Anomalies (VPMA) technique applied to Australian anomalies*. ASEG-PESA Melbourne – Australia 2013.
- Cordani, R. 2013. *Constrain modelling in Iron Ore Exploration*. 13<sup>o</sup> CISBGF.
- Cordani, R. 2011. *Gravity 3D modelling: a kimberlite case history and inversion methodology discussion*. 12<sup>o</sup> CISBGF.
- Cordani, R. 2010. *Modelamento gravimétrico tridimensional do baixo anômalo de ar-livre da Bacia de Santos*. IV Simbgf.
- Cordani, R. & Shukowsky W. 2009. *Virtual Pole from Magnetic Anomaly (VPMA): a procedure to estimate the age of a rock from its magnetic anomaly only*. Journal of Applied Geophysics, October, 69(2):96-102.
- Cordani, R. 2009. *Magnetização remanescente: um parâmetro crucial para a interpretação e modelamento de anomalias magnéticas em território brasileiro*. Brazilian Journal of Geophysics, 27(4): 659-667.
- Cordani, R. 2009. *Drilling directly from a magnetic airborne fixed wing survey: is it possible? A proposed criterion and a real example*. 11<sup>o</sup> CISBGF.
- Cordani, R. 2005. *Um critério para escolha da direção de linhas de vôo em aeromagnetometria no Brasil*. 9<sup>o</sup> CISBGF.
- Cordani, R. et al. *A Case History: Kimberlite Diamond Exploration in Rondonia State, Western Brazil*. 5<sup>o</sup> CISBGF.
- Cordani, R & Mendonça, C. *Planejamento de Levantamentos Magnetométricos Usando a Teoria dos Problemas Inversos*. 5<sup>o</sup> CISBGF.

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**Other  
activities**

- Vice president of the Brazilian Geophysical Society (SBGf) (2011 – 2013).
- Counselor at SBGf (2013 – 2021)
- Invited professor for a summer course in Geophysical Exploration at IAG-USP (2016).
- Short course invited professor at Simbgf (2012) and CISBGF (2013).
- Invited professor for a post-graduation course regarding Geophysical Exploration at IGc-USP (2011).
- Invited speaker for presentation at several Universities: (IAG-USP, IGc-USP, UFOP, UFRGS, UFPR, UERJ and others).
- Honored as “Department 2008 Best Thesis” (PhD).
- Director and/or counselor of the Brazilian Geophysical Society (SBGf) (2001 – current).
- Member of SBGf, SEG and KEGS.
- Sports: professional swimmer from 1987 to 1993; Ironman Triathlete (2001).
- Sports Director of Brazilian Swimming Federation (CBDA) (2017-2020)
- Languages: Portuguese (native language), English (fluent), Spanish (reading).