Ming Zhang
Postdoc in Geophysics
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Academic History

Postdoctoral fellow
Jilin University, China — *Jan 2021 – Present*
Geophysics

PhD
Memorial University of Newfoundland, Canada (Visiting PhD Student) — *Oct 2018 - Oct 2020*
Geophysics
Jilin University, China — *Sep 2016 - Oct 2018*
Geophysics

Master of Science
Jilin University, China — *Sep 2011 - Jun 2014*
Detection Technology and Automatic Equipment

Bachelor
Jilin University, China — *Sep 2007 - Jun 2011*
Measurement & Control Technology and Instrumentation

Industrial History

Software Engineer, Requirement Analysis Engineer
Qiming Information Technology Co., Ltd, China — *Aug 2014 - Aug 2016*

Publications

1. **Ming Zhang**, Colin G. Farquharson, Tingting Lin. 2022. Three-dimensional forward modeling and characterization of the responses of the ground-airborne frequency-domain electromagnetic method. *Journal of Applied Geophysics*.199(104588). https://doi.org/10.1016/j.jappgeo.2022.104588
2. **Ming Zhang**, Colin G. Farquharson, Tingting Lin. 2022. Comparison of nodal and edge basis functions for the forward modelling of three-dimensional frequency-domain wire source electromagnetic data using a potentials formulation. *Geophysical Prospecting*.70(4):828-843. https://doi.org/10.1111/1365-2478.13187

3. **Ming Zhang**, Colin G. Farquharson, Changsheng Liu. 2021. Improved CSAMT apparent resistivity pseudo-sections based on the frequency and frequency–spatial gradients of electromagnetic fields. *Geophysical Prospecting*, 69(2), 474-490. https://doi.org/10.1111/1365-2478.13059.

4. **Ming Zhang**, Colin G. Farquharson, Changsheng Liu. 2021. 2.5D forward modeling of the frequency domain ground airborne electromagnetic response in areas with topographic relief. *Chinese J. Geophys* (*in Chinese*), 64(1): 327-342. https://doi.org/10.6038/ cjg2020N0182.

5. **Ming Zhang**, Colin G. Farquharson, Changsheng Liu. 2020. Response characteristics of gradient data from the frequency domain controlled-source electromagnetic method. *Journal of Applied Geophysics*, 172(103873). https://doi.org/10.1016/j.jappgeo.2019.103873.

6. Changsheng Liu, **Ming Zhang**, Jinfa Ma, et al. 2020. Divergence of tipper vector imaging for ground–airborne frequency-domain electromagnetic method with orthogonal sources. Journal of Electromagnetic Waves and Applications, 34(3): 316-329. https://doi.org/10.1080/09205071.2019.1704890.

7. Changsheng Liu, Lili Kang, Wenjie Zhu, Haigen Zhou, **Ming Zhang** and Jie Liang. 2019. Suppression of the attitude error with a modified iterative algorithm for apparent resistivity imaging in GAFDEM survey. *IEEE Access*, 7: 179898-179904. https://doi.org/10.1109/ACCESS.2019.2958631.

8. Haigen Zhou, **Ming Zhang**, Changsheng Liu, et al. 2018. Divergence of tipper real induction vector in tensor frequency-domain ground-airborne electromagnetic method. *SEG Technical Program Expanded Abstracts*. https://doi.org/10.1190/segam2018-2997672.1.

9. **Ming Zhang**, Changsheng Liu, Lili Kang, et al. 2018. Two-dimensional ground structure detection method based on the tipper characteristics of airborne magnetotelluric． *Progress in Geophysics* (*in Chinese*), 33(03): 1303-1312. https://doi.org/10. 6038 /pg2018BB0140.

10. Changsheng Liu, **Ming Zhang**, Peng Liu, et al. 2017. Controlled Source Electromagnetic Gradient Measurement and Imaging Method. *13th China International Geo-electromagnetic workshop, Wuhan, China.*