

科研方向	I am interested in understanding and characterizing geodynamic phenomena at subduction zone(eg. Volcano). My current focuses include: <ul style="list-style-type: none"><li>• Geodynamics in subduction zone</li><li>• Heat flux anomaly around volcano arc</li></ul>	
教育经历	南卫理公会大学	美国，德克萨斯州，达拉斯
	地球物理博士在读	2020 年 8 月至今
	导师: 路中 教授	
	中国科学技术大学	中国，合肥
	地球物理学本科学位	2016 年 9 月 – 2020 年 6 月
技能	编程 C, Python, Matlab, L <sup>A</sup> T <sub>E</sub> X, Bash 工具 Vim, Git, Linux 语言 英语, 普通话	
已发表论文	<ol style="list-style-type: none"><li>1. Y. Okada, "Surface deformation due to shear and tensile faults in a half-space," <i>Bulletin of the Seismological Society of America</i>, vol. 75, no. 4, pp. 1135–1154, August /1985.</li><li>2. A. Ferretti, C. Prati, and F. Rocca, "Permanent scatterers in SAR interferometry," <i>IEEE Transactions on Geoscience and Remote Sensing</i>, vol. 39, no. 1, pp. 8–20, Jan./2001.</li><li>3. R. Bamler and P. Hartl, "Synthetic aperture radar interferometry," p. 54,</li><li>4. W. Zheng, J.-W. Kim, S. T. Ali, and Z. Lu, "Wastewater leakage in West Texas revealed by satellite radar imagery and numerical modeling," <i>Scientific Reports</i>, vol. 9, no. 14601, Oct. 2019.</li><li>5. J.-W. Kim, Z. Lu, and J. Kaufmann, "Evolution of sinkholes over Wink, Texas, observed by high-resolution optical and SAR imagery," <i>Remote Sensing of Environment</i>, vol. 222, pp. 119–132, Mar. 2019.</li><li>6. Y. Shi, Y. Tang, Z. Lu, J.-W. Kim, and J. Peng, "Subsidence of sinkholes in Wink, Texas from 2007 to 2011 detected by time-series InSAR analysis," <i>Geomatics, Natural Hazards and Risk</i>, vol. 10, no. 1, pp. 1125–1138, Feb. 17, 2019.</li><li>7. M. Bagnardi and A. Hooper, "Inversion of Surface Deformation Data for Rapid Estimates of Source Parameters and Uncertainties: A Bayesian Approach," <i>Geochemistry, Geophysics, Geosystems</i>, vol. 19, no. 7, pp. 2194–2211, Jul. 2018.</li><li>8. 玉. 牛, "SAR/InSAR 技术用于矿区探测与形变监测研究," 长安大学, 西安, 中国, 2015, 112 pp.</li></ol>	

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12. A. Ferretti, A. Fumagalli, F. Novali, C. Prati, F. Rocca, and A. Rucci, "A New Algorithm for Processing Interferometric Data-Stacks: SqueeSAR," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 49, no. 9, pp. 3460–3470, Sep. 2011.
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14. Z. Lu and D. Dzurisin, "Ground surface deformation patterns, magma supply, and magma storage at Okmok volcano, Alaska, from InSAR analysis: 2. Coeruptive deflation, July–August 2008," *Journal of Geophysical Research*, vol. 115, B00B03 May 5, 2010.
15. A. Hooper, "A multi-temporal InSAR method incorporating both persistent scatterer and small baseline approaches," *Geophysical Research Letters*, vol. 35, no. L16302, pp. 1–5, Aug. 19, 2008.
16. Z. Lu and O.-i. Kwoun, "Radarsat-1 and ERS InSAR Analysis Over Southeastern Coastal Louisiana: Implications for Mapping Water-Level Changes Beneath Swamp Forests," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 46, no. 8, pp. 2167–2184, Aug. 2008.
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18. A. Hooper, P. Segall, and H. Zebker, "Persistent scatterer interferometric synthetic aperture radar for crustal deformation analysis, with application to Volcán Alcedo, Galápagos," *Journal of Geophysical Research*, vol. 112, no. B7, B07407, Jul. 10, 2007.
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28. Z. Lu, D. Mann, and J. Freymueller, "Satellite radar interferometry measures deformation at Okmok volcano," *Eos, Transactions American Geophysical Union*, vol. 79, no. 39, pp. 461–476, Sep. 29, 1998.
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## 学术报告

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## 荣誉

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|---------------------------|------|
| • 地学攀登奖学金, 中国科大           | 2019 |
| • 国家励志奖学金, 中国科大           | 2018 |
| • 物理研究性实验竞赛特等奖 (团体), 中国科大 | 2018 |
| • 817 海外校友奖助学金, 中国科大      | 2017 |
| • 国家励志奖学金, 中国科大           | 2017 |