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## 个人信息



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## Education and Research Position

1. **Ph.D.** (应用数学), 中国科学院数学与系统科学研究院, 2007.09-2012.07, 导师: 张波研究员.
  2. **B.sc.** (数学与应用数学), 山东大学(威海), 2003.09-2007.07.
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1. **副教授**, 西安交通大学, 数学与统计学学院, 2015.06-Present.
  2. **Research Fellowship**, 香港中文大学, 数学系, 2014.06-2015.05. (合作)

## 最近新闻

- [关于含掩埋物体的复杂散射体反演的唯一性工作被国际权威期刊 Journal of Differential Equations接收](#) 2018-07-13
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  - [关于流固耦合反散射问题唯一性的工作被反问题领域的国际权威期刊 Inverse Problems接收](#) 2017-11-18
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  - [关于粗糙曲面反演的工作被应用与计算数学中的国际权威期刊SIAM Journal on Imaging Sciences在线发表](#) 2017-09-26
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## 研究方向

1. 反散射的数学理论与计算
2. 计算声学 with 电磁学
3. 一般反边值问题的理论与计算

### 主持基金项目情况：

1. 国家自然科学基金面上项目, No.11771349, 2018.01-2021.12.
2. 国家自然科学基金青年科学基金, No.11401568, 2015.01-2017.12.
3. 中国博士后科学基金特别资助, No.2016T90900, 2016.06-2017.06.
4. 中国博士后科学基金面上—等资助, No.2015M580827, 2015.06-2016.12.
5. 中国博士后科学基金面上—等资助, No.2013M530071, 2013.05-2014.05.

### 所获奖励或荣誉：

1. 2018, 中国工业与应用数学学会第四届CSIAM应用数学青年科技奖
2. 2017, 入选陕西省"百人计划"青年项目
3. 2016, IWTCAIP, "浪潮优秀青年学术奖"
4. 2014, "Research Fellowship" of CUHK
5. 2013, 中国科学院百篇优秀博士学位论文奖
6. 2012, 中国科学院院长优秀奖
7. 2012, 中国科学院"永安期货"奖学金特等奖
8. 2011, 中国科学院数学与系统科学研究院院长优秀奖

### 已发表论文：

1. J. Yang, B. Zhang and H. Zhang, Uniqueness in inverse acoustic and electromagnetic scattering by penetrable obstacles with embedded objects, *Journal of Differential Equations*, Accepted for publication, 2018. (第一作者)
2. F. Qu, J. Yang\*, B. Zhang, Recovering an elastic body containing embedded obstacles by the acoustic far-field measurements, *Inverse Problems* 34, 015002, 2018. (通讯)
3. F. Qu, J. Yang\*, On recovery of an inhomogeneous cavity in inverse acoustic scattering, *Inverse Problems and Imaging* 12, 181-191, 2018. (通讯)
4. J. Yang, K. Liu, Detecting buried wave-penetrable scatterers in a two-layered medium, *Journal of Computational and Applied Mathematics*, Vol. 330, 318-329 (2018). ([doi.org/10.1016/j.cam.2017.08.021](https://doi.org/10.1016/j.cam.2017.08.021)) (第一作者)

者：邹军教授)

3. 博士后, 中国科学院数学与系统科学研究院, 2012.06-2014.05. (合作导师: 张纪峰研究员)

## Counter



5. M. Ding, J. Li, K. Liu, J. Yang\*, Imaging of local rough surfaces by the linear sampling method with near-field data, *SIAM Journal on Imaging Sciences* 10(3), 1579-1602, (2017). ([doi.org/10.1137/16M1097997](https://doi.org/10.1137/16M1097997)) (通讯)
6. F. Qu, J. Yang\*, Determining an unbounded periodic interface for the inverse fluid-solid interaction problem, Submitted to *Communication in Mathematical Sciences*, 2017. (通讯)
7. F. Qu, J. Yang\*, B. Zhang, An approximate factorization for inverse medium scattering with unknown buried objects, *Inverse Problems* 33, 035007, (24pp), (2017). ([doi.org/10.1088/1361-6420/aa58d8](https://doi.org/10.1088/1361-6420/aa58d8)) (通讯)
8. J. Jia, J. Peng, J. Yang, Harnack's inequality for a space-time fractional diffusion equation and applications to an inverse source problem, *Journal of Differential Equations* 262, 4415-1150, (2017). ([dx.doi.org/10.1016/j.jde.2017.01.002](https://dx.doi.org/10.1016/j.jde.2017.01.002)) (第三作者)
9. J. Yang, B. Zhang, R. Zhang, Near-field imaging of periodic interfaces in multilayered media, *Inverse Problems* 32, 035010, (26pp)(2016). ([doi.org/10.1088/0266-5611/32/3/035010](https://doi.org/10.1088/0266-5611/32/3/035010)) (第一作者)
10. G. Hu, J. Yang\*, B. Zhang, H. W. Zhang, Near-field imaging of scattering obstacles with the factorization method, *Inverse Problems* 30, 095005, (25pp), (2014). ([doi.org/10.1088/0266-5611/30/9/095005](https://doi.org/10.1088/0266-5611/30/9/095005)) (通讯)
11. J. Yang, B. Zhang, H. Zhang, Reconstruction of complex obstacles with generalized impedance boundary conditions from far-field data, *SIAM Journal on Applied Mathematics* 74, 106-124, (2014). ([dx.doi.org/10.1137/130921350](https://dx.doi.org/10.1137/130921350)) (第一作者)
12. J. Yang, B. Zhang, H. W. Zhang, The factorization method for reconstructing a penetrable obstacle with unknown buried objects, *SIAM Journal on Applied Mathematics* 73, 617-635, (2013). ([dx.doi.org/10.1137/120883724](https://dx.doi.org/10.1137/120883724)) (第一作者)
13. J. Yang, B. Zhang, R. Zhang, Reconstruction of penetrable grating profiles, *Inverse Problems and Imaging* 7, 1393-1407, (2013). ([doi:10.3934/ipi.2013.7.1393](https://doi.org/10.3934/ipi.2013.7.1393)) (第一作者)
14. J. Yang, B. Zhang, R. Zhang, A sampling method for the inverse transmission problem for periodic media, *Inverse Problems* 28, 035004 (17pp), (2012). ([doi.org/10.1088/0266-5611/28/3/035004](https://doi.org/10.1088/0266-5611/28/3/035004)) (第一作者)
15. J. Yang and B. Zhang, An inverse transmission scattering problem for periodic media, *Inverse Problems* 27, 125010 (22pp), (2011). ([doi.org/10.1088/0266-5611/27/12/125010](https://doi.org/10.1088/0266-5611/27/12/125010)) (第一作者)
16. X. Liu, B. Zhang, J. Yang, The inverse electromagnetic scattering problem in a piecewise homogeneous medium, *Inverse Problems* 26, 125001 (19pp), (2010). ([doi.org/10.1088/0266-5611/26/12/125001](https://doi.org/10.1088/0266-5611/26/12/125001)) (第三作者)