李祥

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教育背景

New York University 2019.7 –至今
Postdoctoral Associate

New York University 2017.12 – 2019.01
专业：计算机科学，联合培养博士生，导师: Yi Fang

中国科学院大学 2014.09 – 2019.06
专业：地图学与地理信息系统，直博生，导师: 池天河

武汉大学 2010.09 – 2014.06
专业：遥感科学与技术，工学学士，专业排名：1/80

研究方向

深度学习、计算机视觉、遥感信息提取、智慧城市大数据分析

获奖情况

- 2017-2018 年，获中国科学院大学**博士生国家奖学金**
- 2017 年, 获**国家留学基金委公派留学资格**
- 2017 年, 获**遥感地球所优秀科研论文奖励**
- 2016 年，获中科院遥感与数字地球研究所**所长基金**
- 2011-2012 年，获武汉大学希捷奖学金
- 2010-2011 年，获武汉大学**国家奖学金**

科研成果

- **以第一作者/通讯作者发表 SCI 论文 6 篇 (top 期刊 4 篇, 二区 2 篇)**，中文核心论文 4 篇，会议论文 3 篇。
  - (1) L Wang, **X Li** (equal contribution), Y Fang. Few-shot Learning of Part-specific Probability Space for 3D Shape Segmentation, IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2020. (**CCF A 类会议**)
  - (2) **X Li**, L Wang, M Wang, C Wen, N Zhou, Y Fang. Density-Aware Convolutional Networks with Context Encoding for Airborne LiDAR Point Cloud Classification, ISPRS Journal of Photogrammetry and Remote Sensing, accepted.(SCI, **top 期刊, IF=6.9**)
  - (3) **X Li**, C Wen, L W, Y Fang. Topology Constrained Shape Correspondence, IEEE Transactions on Visualization and Computer Graphics, accepted. (SCI, **top 期刊, IF=3.8**)
  - (4) C Wen, L Yang, L Peng, **X Li***(通讯作者), T Chi. Directionally Constrained Fully Convolutional Neural Network For Airborne Lidar Point Cloud Classification, ISPRS Journal of Photogrammetry and Remote Sensing, 2020(162):50-62.(SCI, **top 期刊, IF=6.9**)
  - (5) C Wen, S Liu, X Yao, L Peng, **X Li**, A novel spatiotemporal convolutional long short-term neural network for air pollution prediction[J]. Science of The Total Environment, 2019, 654: 1091-1099.(SCI, **top 期刊, IF=4.6**)

- (6) J Chen, L Wang, **X Li**, Y Fang. Arbicon-Net: Arbitrary Continuous Geometric Transformation Networks for Image Registration, Neural Information Processing Systems (NeurIPS) 2019. (CCF A 类会议)
- (7) Y Hu, Y Chen, **X Li**, J Feng. Dynamic Feature Fusion for Semantic Edge Detection, International Joint Conferences on Artificial Intelligence (IJCAI) 2019. (CCF A 类会议).
- (8) Y Hu, **X Li**, L Peng. A Sample Update-based Convolutional Neural Network Framework for Object Detection in Large-area Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2019, 16(6). (SCI, 二区, IF=3.5)
- (9) **X Li**, L Wang, Y Fang. PC-Net: Unsupervised Point Correspondence Learning with Neural Networks, International Conference on 3D Vision (3DV), 2019.
- (10) **X Li**, H Cui, J Rizzo, E Wong, Y Fang. Cross-Safe: A computer vision-based approach to make all intersection-related pedestrian signals accessible for the visually impaired, Computer Vision Conference 2019. (**best student paper nomination**)
- (11) **X Li**, F Yi. Building-A-Nets: Robust building extraction from high-resolution Remote Sensing images with adversarial networks, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018(99):1-8. (SCI, 二区, IF=2.8)
- (12) Y Hu, **X Li**, L Peng. A novel evolution tree for analyzing the global energy consumption structure[J]. Energy, 2018, 147: 1177-1187. (SCI, **top 期刊, IF=4.9**)
- (13) **X Li**, L Peng, X Yao. et al, Long short-term memory neural network for air pollutant concentration predictions: Method development and evaluation, Environmental Pollution, 2017, 231P1: 997-1004.(SCI, **top 期刊, IF=5.1**)
- (14) H Tian, W Li, M Wu, N Huang, G Li, **X Li**, Z Niu, Dynamic monitoring of the largest freshwater lake in China using a new water index derived from high spatiotemporal resolution Sentinel-1A data. Remote Sensing, 2017, 9(6), 521. (SCI, 二区, IF=4.1)
- (15) **X Li**, L Peng, Y Hu. et al, Deep learning architecture for air quality predictions, Environmental Science and Pollution Research, 2016,23(22):22408-22417.(SCI, 二区, IF=2.7)
- (16) **李祥**，彭玲, 池天河等. 北京市空气质量时空特征分析，测绘通报，2016，40(09):47-51.(CSCD)
- (17) **李祥**，彭玲，邵静等. 基于小波分解和 ARMA 模型的空气污染预报研究，环境工程，2016,34(08)：110-113.(CSCD)
- (18) 彭玲，**李祥 ***, 徐逸之等，基于时空大数据的城市脉动分析研究，地理信息世界，2016，23(3)：5-12.(中文核心)
- (19) 徐逸之，周楠，**李祥 *** 等. 基于全卷积网络的高分辨遥感影像目标检测研究，测绘通报，2018，15(1).(CSCD)

- 担任 ISPRS Journal of Photogrammetry and Remote Sensing, IEEE Transactions on Geoscience and Remote Sensing (TGRS), IEEE Geoscience and Remote Sensing Letters (GSRL), Pattern Recognition Letters, BMVC 2020, IEEE ACCESS 审稿人
- Google Scholar 引用 340 次：`https://scholar.google.com/citations?user=4Apl5FgAAAAJ`
- **申请发明专利 7 项**
  - (1) 基于对抗网络的遥感影像建筑物提取方法、系统、存储介质及设备（CN201910644747.3，第 2 发明人，实质审查)；
  - (2) 神经网络、遥感影像的建筑物提取方法、介质（CN201810373725.3，第 1 发明人，实质审查)；
  - (3) 空气污染物浓度预报方法及系统（CN201610875403.X，第 1 发明人，已授权)；
  - (4) 一种空气污染物浓度预测方法（CN201510767342.0，第 2 发明人，实质审查)；
  - (5) 基于样本更新的卷积神经网络目标检测框架 (CN201811112898.6, 第 3 发明人，实质审查)
  - (6) 基于空间大数据进行知识挖掘的地图可视化系统及方法（CN201510776887.8，第 4 发明人，实质审查)；
  - (7) 地铁短时流量预测方法及装置（CN201610830343.X，第 5 发明人，实质审查)。