周思佳

个人信息

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荣誉奖项

大学生创新创业训练计划项目二等奖	2017.04
美国数学建模大赛 H 奖	2017.02
国家奖学金	2015.10
吉林省数学建模大赛一等奖	2015.05

教育经历

2014 年 9 月- 2018 年 7 月　吉林大学　数学学院

信息与计算科学本科　保险精算双学位　专业第三名，绩点是 3.61/4.0，96 人中第 3 名。

工作经历

湖南千视通信息科技有限公司

2019.5-至今

•聚类:数据分类、聚类。实现千万级高维特征向量的可增量实时聚类

•人体、人骑车角度分类，人头检测，人脸追踪，猫狗识别，数据爬虫等

工作期间学习

•Stanford 计算机课程：　cs 131, cs 229(部分)，cs230, cs231,

完成课后作业&课件&课程视频。学习了解计算机视觉，神经网络，机器学习等内容。

•期间阅读的部分 paper 见注一

活动经历

组织校园模拟招聘　2016.05

•参与策划设计活动海报，安排面试环节

•发起公开招聘，活动包括简历投递和英文面试

撰写表演英语剧 Mind Your Language 2014.12-2015.01

•通过文字和发音表现各国语言和文化冲突

•与成员合作撰写,修改剧本台词,组织小组排练和舞台表演

吉林大学校管弦乐团

2014.09-2015.09

•参与数十场校园音乐会巡演，并在东方大剧院

科研经历

加拿大 Mitacs 科研实习　2017.07-2017.09

•在加拿大阿尔伯塔大学进行"最优运输及其在颜色迁移和机器学习方面应用"研究

•通过阅读书籍文献，MATLAB 编程等进行研究学习,定期与指导老师交流阶段研究成果与进一步研究方向

•项目中后期，组织参与来自多个国家百余名师生的成果展示与讨论会,撰写学习课题全英文总结报告

•期间阅读的部分 paper 见注二

金融衍生品定价的数值方法 2016.06-2017.04

•小组课题入选大学生创新创业训练计划项目

•研究分析了行业常用的金融产品定价方法的优缺点，例如 B-S 定价模型；通过改变边界形式改进算法，分析证明其可行性与稳健性

•撰写项目任务书，并充分准备终期答辩

实习经历

长沙麓谷资本管理公司

2018.01-2018.02

•实习过程中，通过跟进公司正在关注和沟通的投资项目，了解创业投资的基本过程

•学习阅读商业计划书，总结潜在投资项目的特点

演出

开展学生最喜爱名人的调查 2014.09

•分为科学家，政治家，政治家，艺术家和明星等几类

•通过校园问卷获得近百个有效原始数据

•分类整理数据，制作条形图等对比分析，进一步讨论学生的喜好与他们未来选择职业是否存在联系

注二：期间阅读的部分 paper

[1] E. Reinhard, M. Adhikhmin, B. Gooch, and P. Shirley, Color transfer between images, IEEEComput. Graph. Appl., 21 (2001), pp. 34–41.

[2] F. Piti´e, A. Kokaram, and R. Dahyot. Automated colour grading using colour distribution transfer. Journal of Computer Vision and Image Understanding, February 2007.

[3] Pitié, F, Kokaram, A. (2007). The linear Monge-Kantorovitch colour mapping for example-based colour transfer. IET Conference Publications. 1 - 9. 10.1049/cp:20070055.

[4] J. Delon, Midway image equalization, J. Math. Imaging Vision, 21 (2004), pp. 119–134.

[5] Ferradans, S., Papadakis, N., Peyré, G., and Aujol, J.-F. 2014. Regularized discrete optimal transport.

[6] Rabin, Julien, Delon, Julie and Gousseau, Yann. Regularization of transportation maps for color and contrast transfer. Paper presented at the meeting of the ICIP, 2010.

[7] Rabin, Julien, Sira Ferradans, and Nicolas Papadakis. Adaptive color transfer with relaxed optimal transport. Image Processing (ICIP),2014 IEEE International Conference on. IEEE, 2014. [8] Frigo O, Sabater N, Demoulin V, Hellier P. Optimal transportation for example-guided color transfer. In: Computer vision – ACCV 2014.

[9] N. Bonneel, M. van de Panne, S. Paris, and W. Heidrich, Displacement interpolation using agrangian mass transport, ACM Trans. Graph., 30 (2011), 158.

[10] Santambrogio, F.: Optimal Transport for Applied Mathematicians. Birkhäuser Verlag, Basel 2015.

[11] McCann, N. Guillen, Five lectures on optimal transportation: geometry, regularity and applications 2010.

[12] Montavon, Grégoire, Klaus-Robert Müller, and Marco Cuturi. Wasserstein training of restricted Boltzmann machines. Advances in Neural Information Processing Systems. 2016.

注一：期间阅读的部分 paper

[1] Isola, Phillip & Zhu, Jun-Yan & Zhou, Tinghui & Efros, Alexei. (2017). Image-to-Image Translation with Conditional Adversarial Networks. 5967-5976. 10.1109/CVPR.2017.632.

[2] Redmon, Joseph & Farhadi, Ali. (2018). YOLOv3: An Incremental Improvement.

[3] Zhou, Bolei & Khosla, Aditya & Lapedriza, Àgata & Oliva, Aude & Torralba, Antonio. (2016). Learning Deep Features for Discriminative Localization. 10.1109/CVPR.2016.319.

[4] Srivastava, Nitish & Hinton, Geoffrey & Krizhevsky, Alex & Sutskever, Ilya & Salakhutdinov, Ruslan. (2014). Dropout: A Simple Way to Prevent Neural Networks from Overfitting. Journal of Machine Learning Research. 15. 1929-1958.

[5] Goodfellow, Ian & Shlens, Jonathon & Szegedy, Christian. (2014). Explaining and Harnessing Adversarial Examples. arXiv 1412.6572.

[6] Goodfellow, Ian & Pouget-Abadie, Jean & Mirza, Mehdi & Xu, Bing & Warde-Farley, David & Ozair, Sherjil & Courville, Aaron & Bengio, Y.. (2014). Generative Adversarial Nets. ArXiv.

[7] Redmon, Joseph & Divvala, Santosh & Girshick, Ross & Farhadi, Ali. (2016). You Only Look Once: Unified, Real-Time Object Detection. 779-788. 10.1109/CVPR.2016.91.

[8] Kingma, D., & Ba, J..(2014).Adam: a method for stochastic optimization. Computer ence.

[9] Helmbold, D.P., & Long, P.M..(2016).Surprising properties of dropout in deep networks.

[10] Gatys,L.A.,Ecker,A.S., & Bethge, M..(2016).Image Style Transfer Using Convolutional Neural Networks.Computer Vision & Pattern Recognition.IEEE.

[11] Shi, W., Caballero, J., Theis, L., Huszar, F., Aitken, A., & Ledig, C., et al.(2016).Is the deconvolution layer the same as a convolutional layer?.

[12] Zeiler, M.D., & Fergus, R..(2013).Visualizing and Understanding Convolutional Networks.European Conference on Computer Vision.Springer International Publishing.

[13] Simonyan, K., Vedaldi, A., & Zisserman, A..(2013).Deep inside convolutional networks: visualising image classification models and saliency maps.Computer ence.

[14] Dumoulin, V., & Visin, F..(2016).A guide to convolution arithmetic for deep learning.

[15] Huang, G., Liu, Z., Maaten, L.V.D., & Weinberger, K.Q..(2017).Densely Connected Convolutional Networks.CVPR.IEEE Computer Society.

[16] Ioffe, S., & Szegedy, C..(2015).Batch normalization: accelerating deep network training by reducing internal covariate shift.

[17] Kaiming, H., Georgia, G., Piotr, D., & Ross, G..(2017).Mask r-cnn.IEEE Transactions on Pattern Analysis & Machine Intelligence, PP, 1-1.

[18] Zhu, J.Y., Park, T., Isola, P., & Efros, A.A..(2017).Unpaired image-to-image translation using cycle-consistent adversarial networks.

[19] Ledig, C., Theis, L., Huszar, F., Caballero, J., Cunningham, A., & Acosta, A., et al.(2016).Photo-realistic single image super-resolution using a generative adversarial network.