教师介绍

范秋筠

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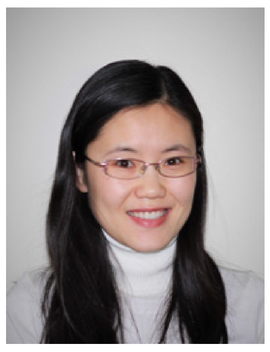

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所在系别	生物医学工程系
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主讲课程	《计算机视觉与智能医学图像处理》 《Medical Imaging & Imaging Data Analysis》
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个人经历或学术经历

教育

2003.09-2008.06浙江大学，生物医学工程系，学士
2008.08-2013.05美国范德比尔特大学，生物医学工程系，博士
2013.10-2019.05美国麻省总医院-哈佛医学院，放射系，博士后
2019.06-2020.11美国麻省总医院-哈佛医学院，放射系，讲师
2020.12-至今，天津大学，副教授

研究方向

磁共振成像，医学影像数据处理，认知和疾病的脑影像关联，智能算法在医学影像及数据分析中的应用等。

科研项目、成果和专利

主持研究项目：

1. 国家自然科学基金面上项目，82071994，面向急性脑卒中微结构成像的HIBRID深度学习加速方法，2021.1-2024.12，56万元，主持。
2. 美国心脏与脑卒中协会（AHA）博士后基金项目，17POST33670452，TractCaliber MRI for Characterizing Axonal Damage in Ischemic Stroke，2017/07/01-2019/6/30，主持。
3. 美国麻省总医院ECOR基金项目，HIBRID MRI for Characterizing Focal Cortical Dysplasia in Epilepsy，2016/01/01-2016/12/31，主持。

论文、专著

1. **Fan, Q.**, Eichner, C., Afzali, M., Mueller, L., Tax, C.M.W., Davids, M., Mahmutovic, M., Keil, B., Bilgic, B., Setsompop, K., Lee, H.-H., Tian, Q., Maffei, C., Ramos-Llordén, G., Nummenmaa, A., Witzel, T., Yendiki, A., Song, Y.-Q., Huang, C.-C., Lin, C.-P., Weiskopf, N., Anwander, A., Jones, D.K., Rosen, B.R., Wald, L.L., Huang, S.Y., 2022. Mapping the Human Connectome using Diffusion MRI at 300 mT/m Gradient Strength: Methodological Advances and Scientific Impact. NeuroImage, 2022; 118958. (Invited Review)
2. **Fan, Q.**, Polackal, M.N., Tian, Q., Ngamsombat, C., Nummenmaa, A., Witzel, T., Klawiter, E.C., Huang, S.Y. Scan-rescan repeatability of axonal imaging metrics using high-gradient diffusion MRI and statistical implications for study design. Neuroimage 2021;240:118323.
3. **Fan, Q.**, Nummenmaa, A., Witzel, T., Ohringer, N., Tian, Q., Setsompop, K., Klawiter, E.C., Rosen, B.R., Wald, L.L., Huang, S.Y. Axon diameter index estimation independent of fiber orientation distribution using high-gradient diffusion MRI. NeuroImage 2020;222:117197.
4. **Fan, Q.**, Tian, Q., Ohringer, N.A., Nummenmaa, A., Witzel, T., Tobyne, S.M., Klawiter, E.C., Mekkaoui, C., Rosen, B.R., Wald, L.L., Salat, D.H., Huang, S.Y. Age-related alterations in axonal microstructure in the corpus callosum measured by high-gradient diffusion MRI. Neuroimage 2019;191:325-336.
5. **Fan, Q.**, Nummenmaa, A., Wichtmann, B., Witzel, T., Mekkaoui, C., Schneider, W., Wald, L.L., Huang, S.Y. Validation of diffusion MRI estimates of compartment size and volume fraction in a biomimetic brain phantom using a human MRI scanner with 300?mT/m maximum gradient strength. Neuroimage 2018;182:469-478.
6. Setsompop, K., **Fan, Q.**, Stockmann, J., Bilgic, B., Huang, S., Cauley, S.F., Nummenmaa, A., Wang, F., Rathi, Y., Witzel, T., Wald, L.L. High-resolution in vivo diffusion imaging of the human brain with generalized slice dithered enhanced resolution: Simultaneous multislice (gSlider-SMS). Magn Reson Med 2018;79(1):141-151.
7. **Fan, Q.**, Nummenmaa, A., Polimeni, J.R., Witzel, T., Huang, S.Y., Wedeen, V.J., Rosen, B.R., Wald, L.L. HIgh b-value and high Resolution Integrated Diffusion (HIBRID) imaging. NeuroImage 2017;150:162-176.
8. Granberg, T., **Fan, Q.**, Treaba, C.A., Ouellette, R., Herranz, E., Mangeat, G., Louapre, C., Cohen-Adad, J., Klawiter, E.C., Sloane, J.A., Mainero, C. In vivo characterization of cortical and white matter neuroaxonal pathology in early multiple sclerosis. Brain 2017;140(11):2912-2926.
9. **Fan, Q.**, Witzel, T., Nummenmaa, A., Van Dijk, K.R.A., Van Horn, J.D., Drews, M.K., Somerville, L.H., Sheridan, M.A., Santillana, R.M., Snyder, J., Hedden, T., Shaw, E.E., Hollinshead, M.O., Renvall, V., Zanzonico, R., Keil, B., Cauley, S., Polimeni, J.R., Tisdall, D., Buckner, R.L., Wedeen, V.J., Wald, L.L., Toga, A.W., Rosen, B.R. MGH-USC Human Connectome Project datasets with ultra-high b-value diffusion MRI. Neuroimage 2016;124(Pt B):1108-1114.
10. **Fan, Q.**, Anderson, A.W., Davis, N., Cutting, L.E. Structural connectivity patterns associated with the putative visual word form area and children's reading ability. Brain Res 2014;1586:118-129.
11. **Fan, Q.**, Nummenmaa, A., Witzel, T., Zanzonico, R., Keil, B., Cauley, S., Polimeni, J.R., Tisdall, D., Van Dijk, K.R., Buckner, R.L., Wedeen, V.J., Rosen, B.R., Wald, L.L. Investigating the capability to resolve complex white matter structures with high b-value diffusion magnetic resonance imaging on the MGH-USC Connectom scanner. Brain Connect 2014;4(9):718-726.
12. **Fan, Q.**, Davis, N., Anderson, A.W., Cutting, L.E. Thalamo-cortical connectivity: what can diffusion tractography tell us about reading difficulties in children? Brain Connect 2014;4(6):428-439.

奖励、荣誉和学术兼职

一、获奖荣誉

1. 2018年，入选国际医学磁共振学会（ISMRM）青年会士
2. 2018年，国际华人医学磁共振学会青年学者奖
3. 2017-19年，美国心脏及脑卒中学会Postdoc Fellowship
4. 2016年，国际医学磁共振学会Magna Cum Laude Merit Award
5. 2015年，国际医学磁共振学会Summa Cum Laude Merit Award

二、学术兼职

1. 中国图象图形学会-脑图谱专家委员会，委员
2. 《The Innovation》青年编委
3. 《Military Medical Research》青年编委
4. 国际医学磁共振学会程序委员会青年委员
5. 国际医学磁共振学会青年会士论坛筹委会委员
6. 北美放射协会(RSNA)定量影像学生物标记协会磁共振成像委员会委员
7. 《Frontiers in Neuroscience》期刊客座编辑
8. 审稿人：NeuroImage, Magnetic Resonance in Medicine, IEEE Transactions on Medical Imaging, American Journal of Neuroradiology, Nature Scientific Reports, Magnetic Resonance Materials in Physics, Biology and Medicine, Journal of Magnetic Resonance Imaging, Neurobiology of Aging, NeuroImage: Clinical