

简历

(2023年11月)

个人信息

姓名：张曼菲 学位：博士 性别：女 出生年月：1987-11
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教育经历

2012-09 至 2018-06	复旦大学生命科学学院	人类生物学	理学博士（硕博连读）
2009-10 至 2011-01	上海市武警总队女兵训练管理基地		世博女兵（义务兵役）
2006-09 至 2012-06	复旦大学生命科学学院	生物科学	理学学士

科研与学术工作经历

2022-11 至今	上海交通大学 Bio-X 研究院	长聘教轨副教授
2018-07 至 2022-11	复旦大学人类表型组研究院	博士后
2013-04 至 2018-07	中国科学院上海营养与健康研究所	联培生

研究方向

主要从事东亚人群外貌特征的量化与遗传学研究。参与人类表型组计划，以表型组学理念、方式和方法开展生命科学研究新尝试，利用大规模数据构建自动量化颅面特征的方法，拓展了颅面表型遗传学的知识，对人类自身认识具有重大意义。具体包括：1. 颅面表型的数字量化与数据库构建；2. 外貌特征差异的形成机理及遗传进化机制；3. 颅面表型与精神健康的关联及其调控机制。

发表著作

代表性论著：

- Zhang M*, Wu S*, Du S*, Qian W*, Chen J, Qiao L, Yang Y, Tan J, Yuan Z, Peng Q, Liu Y, Navarro N, Tang K, Ruiz-Linares A, Wang J, Claes P, Jin L, Li J, Wang S. Genetic variants underlying differences in facial morphology in East Asian and European populations. *Nature Genetics*. 2022. Apr; 54(4):403-411.
- Qian W*, Zhang M*, Wan K*, Xie Y*, Du S, Li J, Mu X, Qiu J, Xue X, Zhuang X, Wu Y, Liu F, Wang S. Genetic evidence for facial variation being a composite phenotype of cranial variation and facial soft tissue thickness. *Journal of Genetics and Genomics*. 2022. Mar 5:S1673-8527(22)00072-8.
- Li Y*, Xiong Z*, Zhang M*, Hysi PG*, Qian Y*, Adhikari K*, Weng J, Wu S, Du S, Gonzalez-Jose R, Schuler-Faccini L, Bortolini MC, Acuna-Alonzo V, Canizales-Quinteros S, Gallo C, Poletti G, Bedoya G, Rothhammer F, Wang J, Tan J, Yuan Z, Jin L, Uitterlinden AG, Ghanbari M, Ikram MA, Nijsten T, Zhu X, Lei Z, Jia P, Ruiz-Linares A, Spector TD, Wang S, Kayser M, Liu F. Combined genome-wide association study of 136 quantitative ear morphology traits in multiple populations reveal 8 novel loci. *PLOS Genetics*. 2023 Jul 17;19(7):e1010786..
- Wu S*, Zhang M*, Yang X*, Peng F, Zhang J, Tan J, Yang Y, Wang L, Hu Y, Peng Q, Li J, Liu Y, Guan Y, Chen C, Hamer MA, Nijsten T, Zeng C, Adhikari K, Gallo C, Poletti G, Schuler-Faccini L, Bortolini MC, Canizales-Quinteros S, Rothhammer F, Bedoya G, González-José R, Li H, Krutmann J, Liu F, Kayser M, Ruiz-Linares A, Tang K, Xu S, Zhang L, Jin L, Wang S. Genome-wide association studies and CRISPR/Cas9-mediated gene editing identify

- regulatory variants influencing eyebrow thickness in humans. *PLOS Genetics*. 2018 Sep 24; 14(9):e1007640.
5. **Zhang M***, Li B*, Wu S, Tan J, Yang Y, Marini A, Vierkötter A, Zhang J, Li H, Schikowski T, Jin L, Krutmann J, Wang S. A Genome-Wide Association Study of Basal Transepidermal Water Loss Finds that Variants at 9q34.3 Are Associated with Skin Barrier Function. *Journal of Investigative Dermatology*. 2017 Apr; 137(4):979-982.
 6. **Zhang M***, Wu S*, Zhang J*, Yang Y*, Tan J, Guan H, Liu Y, Tang K, Krutmann J, Xu S, Jin L, Guan Y, Li H, Wang S. Large-scale genome-wide scans do not support petaloid toenail as a Mendelian trait. *Journal of Genetics and Genomics*. 2016 Dec 20;43(12):702-704.

已发表的其他论著:

7. Luo J*, Huang H*, Qiao H*, Tan J, Chen W, **Zhang M**, Ruiz-Linares A, Wang J, Yang Y, Jin L, Headon DJ, Wang S. GWASs Identify Genetic Loci Associated with Human Scalp Hair Whorl Direction. *Journal of Investigative Dermatology*. 2023 Oct;143(10):2065-2068.e10.
8. Wang CC*, Yeh HY*, Popov AN*, Zhang HQ*, Matsumura H, Sirak K, Cheronet O, Kovalev A, Rohland N, Kim AM, Mallick S, Bernardos R, Tumen D, Zhao J, Liu YC, Liu JY, Mah M, Wang K, Zhang Z, ... , **Zhang M**, He G, Yang X, Hu R, Robbeets M, Schiffels S, Kennett DJ, Jin L, Li H, Krause J, Pinhasi R, Reich D. Genomic insights into the formation of human populations in East Asia. *Nature*. 2021 Mar; 591(7850):413-419.
9. Huang Y*, Li D*, Qiao L, Liu Y, Peng Q, Wu S, **Zhang M**, Yang Y, Tan J, Xu S, Jin L, Wang S, Tang K, Grünewald S. A genome-wide association study of facial morphology identifies novel genetic loci in Han Chinese. *Journal of Genetics and Genomics*. 2021 Mar 20; 48(3):198-207.
10. Wang CC, Lu Y, Kang L, Ding H, Yan S, Guo J, Zhang Q, Wen SQ, Wang LX, **Zhang M**, Tong X, Huang X, Nie S, Deng Q, Zhu B, Jin L, Li H. The massive assimilation of indigenous East Asian populations in the origin of Muslim Hui people inferred from paternal Y chromosome. *American Journal of Physical Anthropology*. 2019 Jun; 169(2):341-347.
11. Ding A*, Yang Y*, Zhao Z*, Hüls A, Vierkötter A, Yuan Z, Cai J, Zhang J, Gao W, Li J, **Zhang M**, Matsui M, Krutmann J, Kan H, Schikowski T, Jin L, Wang S. Indoor PM2.5 exposure affects skin aging manifestation in a Chinese population. *Scientific Report*. 2017 Nov 10; 7(1):15329.
12. Wu S*, Tan J*, Yang Y*, Peng Q, **Zhang M**, Li J, Lu D, Liu Y, Lou H, Feng Q, Lu Y, Guan Y, Zhang Z, Jiao Y, Sabeti P, Krutmann J, Tang K, Jin L, Xu S, Wang S. Genome-wide scans reveal variants at EDAR predominantly affecting hair straightness in Han Chinese and Uyghur populations. *Human Genetics*. 2016 Nov; 135(11):1279-1286.
13. Peng Q*, Li J*, Tan J*, Yang Y*, **Zhang M**, Wu S, Liu Y, Zhang J, Qin P, Guan Y, Jiao Y, Zhang Z, Sabeti PC, Tang K, Xu S, Jin L, Wang S. EDARV370A associated facial characteristics in Uyghur population revealing further pleiotropic effects. *Human Genetics*. 2016 Jan; 135(1):99-108.
14. Wang CC, Wang LX, Shrestha R, Wen S, **Zhang M**, Tong X, Jin L, Li H. Convergence of Y Chromosome STR Haplotypes from Different SNP Haplogroups Compromises Accuracy of Haplogroup Prediction. *Journal of Genetics and Genomics*. 2015 Jul 20; 42(7):403-7.
15. Xu H*, Wang CC*, Shrestha R, Wang LX, **Zhang M**, He Y, Kidd JR, Kidd KK, Jin L, Li H. Inferring population structure and demographic history using Y-STR data from worldwide populations. *Molecular Genetics and Genomics*. 2015 Feb; 290(1):141-50.
16. Wang CC, Wang LX, Shrestha R, **Zhang M**, Huang XY, Hu K, Jin L, Li H. Genetic structure of Qiangic populations residing in the western Sichuan corridor. *PLOS One*. 2014 Aug 4;9(8):e103772.
17. Wang CC, Wang LX, **Zhang M**, Yao DL, Jin L, Li H. Present Y chromosomes support the Persian ancestry of Sayyid Ajjal Shams al-Din Omar and Eminent Navigator Zheng He. *Communication on Contemporary Anthropology*. (2014)8:8-10.
18. **Zhang M**. Most recent common ancestor of paternal and maternal lineages of modern human did not have to be

in the same time. *Communication on Contemporary Anthropology*. (2013)7:e21/133-137.

会议报告：

1. **Zhang M**, Wu S, Du S, Jin L, Wang S (2019): A large-scale genome-wide association scan in East Asians revealed genetic mechanisms underlying variations of human facial morphology. In *Proceedings of the 69th Annual Meeting of the American Society of Human Genetics (ASHG)*.
2. Qian W, **Zhang M**, Wu Y, Wan K, Zhuang X, Xue X, Wang S (2019): A genome-wide association study on three-dimensional (3D) skull phenotypes in Han Chinese population. In *Proceedings of the 42nd Annual Meeting of the Society for Craniofacial Genetics and Developmental Biology (SCGDB)*.

主持或参与项目/课题

1. 国家自然科学基金委员会，青年科学基金项目，31900408，基于面部分割方法的颅面表型提取及其遗传与进化机制研究，2020-01 至 2022-12，25 万元，结题，主持
2. 中国博士后科学基金，面上项目，2019M651352，颅面特征在人群混合及进化中的规律研究，2020-01 至今，8 万元，结题，主持
3. 上海市，“国际人类表型组计划（一期）”项目，项目五：人类表型特征的跨尺度关联及精细调控原理，市级科技重大专项，2017SHZDZX01，2020-01 至 2022-12，200 万元，结题，参与
4. 国家自然科学基金委员会，面上项目，31771393，人类牙齿形态特征的遗传学研究，2018-01-01 至 2021-12-31，57 万元，结题，参与
5. 国家自然科学基金委员会，重大研究计划，91631105，东亚人群牙齿形态特征的基因组变异及其进化机制研究，2017-01-01 至 2017-12-31，41 万元，结题，参与

其他学术经验或奖励

1. 青年编委（*Phenomics, Journal of Genetics and Genomics*）
2. 审稿人（*PLOS Genetics, Human Genetics, Progress in Neuropsychopharmacology & Biological Psychiatry*）
3. 荣获德国 CK 公司颁发的皮肤生理学研究奖 *CK-Research Award for Skin Physiology* (2017)