

# Curriculum Vitae

## Qiongshi Lu

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### Education

- 2012-2017 **Ph.D. in Biostatistics**, Yale University, New Haven, CT  
Committee: Hongyu Zhao, Richard Lifton, Zuoheng Wang, Naftali Kaminski
- 2008-2012 **B.S. in Mathematics**, Tsinghua University, Beijing, China

### Positions and Employment

- 2025- **Director**  
Genomic Sciences Training Program, University of Wisconsin-Madison
- 2023- **Associate Professor**  
Department of Biostatistics & Medical Informatics, University of Wisconsin-Madison
- 2017-2023 **Assistant Professor**  
Department of Biostatistics & Medical Informatics, University of Wisconsin-Madison
- 2014-2017 **Graduate Research Assistant** (mentor: Hongyu Zhao)  
Center for Statistical Genomics and Proteomics, Yale University
- 2013-2016 **Graduate Teaching Assistant**  
Yale School of Public Health
- 2011-2012 **Undergraduate Research Assistant** (mentor: Tingting Li)  
Peking University Health Science Center, Beijing, China
- 2011-2012 **Undergraduate Research Assistant** (mentor: Xuegong Zhang)  
MOE Key Laboratory of Bioinformatics, Tsinghua University, Beijing, China

### Affiliations

- 2021- **Affiliate Faculty**  
Center for Genomic Science Innovation, UW-Madison
- 2018- **Affiliate Faculty**  
Center for Demography of Health and Aging, UW-Madison
- 2018- **Affiliate Faculty**  
Department of Statistics, UW-Madison

### Publications

Lab members are highlighted with underscore and boldface

\* junior authors with equal contribution; † senior authors with equal contribution

#### **Submitted Papers**

[108] Zheng Q.\*, van Alten S.\*, Lyngstad T.\*, Ciscato E.\*, Sun Z., Miao J., Wu Y., Dorn S., Zheng B., Havdahl A., Corfield E., Nivard M., Galama T., Turley P., Chiappori P., Fletcher J., Lu Q. (2025). **Genetic basis of partner choice.** (preprint available on *bioRxiv*)

- [107] **Zhao Z\***, **Dorn S\***, **Wu Y**, **Yang X**, Jin J., **Lu Q**. (2025). **One score to rule them all: regularized ensemble polygenic risk prediction with GWAS summary statistics.** (preprint available on *bioRxiv*)
- [106] Basu S., Fletcher J., **Lu Q**, **Miao J**., Schmitz L., (2025). **Understanding the role of genetic heterogeneity in smoking interventions: experimental evidence from the Lung Health Study.**
- [105] Sierant M., Jin S., Bilguvar K., Morton S., Dong W., Jiang W., Lu Z., Li B., Lopez-Giraldez F., Tikhonova I., Zeng X., **Lu Q**., Choi J., Zhang J., Nelson-Williams C., Knight J., Zhao H., Cao J., Mane S., Sedore S., Gruber P., Lek M., Goldmuntz B., Deanfield J., Giardini A., Mital S., Russell M., Gaynor W., King E., Wagner M., Srivastava D., Bernstein D., Porter G., Newburger J., Seidman J., Roberts A., Yandell M., Yost J., Tristani-Firouzi M., Kim R., Chung W., Gelb B., Seidman C., Brueckner M., Lifton R. (2025). **Genomic analysis of 11,555 probands identifies 60 dominant congenital heart disease genes.**
- [104] Basu S., Fletcher J., Schmitz L., **Lu Q**. (2025). **Later life impacts of delaying childbirth on maternal health and economic wellbeing: evidence from the UK Biobank.**
- [103] Xu Y., **Sun Z**., Jonaitis E., Deming Y., **Lu Q**., Johnson S., Engelman C. (2025). **Mid-to-late life healthy lifestyle modifies genetic risk for longitudinal cognitive aging among asymptomatic individuals.** (preprint available on *medRxiv*)
- [102] Zheng B., **Lu Q**., Fletcher J. (2025). **Estimating causal effects of fertility on life course outcomes: evidence using a dyadic genetic instrumental variable approach.** (NBER working paper available)
- [101] Fletcher J., **Lu Q**., Mazumder B., **Song J**. (2025). **Understanding sibling correlations in education: molecular genetics and family background.**
- [100] Li J., He Q., **Wang Z**., **Lu Q**. (2025). **Enhancing the discriminatory power of ADHD and autism spectrum disorder polygenic scores in clinical and non-clinical samples.** (preprint available on *medRxiv*)
- [99] **Miao J\***, Miao X.\* **Wu Y**., Zhao J., **Lu Q**. (2025). **Assumption-lean and data-adaptive post-prediction inference.** (preprint available on *Arxiv*)
- [98] **Miao J**, **Song G**., **Wu Y**., Hu J., **Wu Y**., Basu S., Andrews J., Schaumberg K., Fletcher J., Schmitz L., **Lu Q**. (2025). **Reimagining gene-environment interaction analysis for human complex traits.** (preprint available on *bioRxiv*)

## **Published Papers**

- [97] Salerno S., **Miao J**., Afiaz A., Hoffman K., Neufeld A., **Lu Q**<sup>†</sup>, McCormick T.<sup>†</sup>, Leek J.<sup>†</sup> (2025). **ipd: an R package for conducting inference on predicted data.** *Bioinformatics*, in press.
- [96] Lu T., Zhang W., Robinson-Cohen C., Engelman C., **Lu Q**., de Boer I., Sun L., Paterson A. (2025). **Characterization of gene-environment interactions for vitamin D through variance quantitative trait loci: a UK Biobank-based genetic epidemiology study.** *The American Journal of Clinical Nutrition*, in press.
- [95] Dong W., Jin S., Sierant M., Lu Z., Li B., **Lu Q**., Morton S., Zhang J., Lopez-Giraldez F., Nelson-Williams C., Knight J., Zhao H., Cao J., Mane S., Gruber P., Lek M., Goldmuntz B., Deanfield J., Giardini A., Mital S., Russell M., Gaynor W., Cnota J., Wagner M., Srivastava D., Bernstein D., Porter G., Newburger J., Roberts A., Yandell M., Yost J., Tristani-Firouzi M., Kim R., Seidman J., Chung W., Gelb B., Seidman C., Lifton R.<sup>†</sup>, Brueckner M.<sup>†</sup> (2025). **Recessive genetic contribution to congenital heart disease in 5,424 probands.** *Proceedings of the National Academy of Sciences*, in press.
- [94] Phillips J., Dumitrescu L., Archer D., Regelson A., Mukherjee S., Lee M., Choi S., Scollard P., Trittschuh E., Kukull W., Biber S., Mez J., Mahoney E., Clifton M., Libby J., Walters S., Bush W., Engelman C., **Lu Q**., Fardo D., Widaman K., Buckley R., Mormino E., Sanders E., Clark L., Gifford K., Vardarajan B., The Alzheimer's Disease Neuroimaging Initiative (ADNI), Alzheimer's Disease Genetics Consortium (ADGC), The Alzheimer's Disease Sequencing Project (ADSP), Cuccaro M., Pericak-Vance M., Farrer L., Wang L., Schellenberg G., Haines J., Jefferson A., Johnson S., Albert M., Keene D., Saykin A., Risacher S., Larson E., Sperling R., Mayeux R., Goate A., Renton A., Marcora E., Fulton-Howard B., Patel T., Bennett D., Schneider J., Barnes L., Cruchaga C., Hassenstab J., Belloy M., Andrews S., Resnick S., Bilgel M., An Y., Beason-Held L., Walker K., Duggan M., Klinedinst B., Crane P., Hohman T. (2025). **Novel modeling approaches to elucidate the genetic architecture of resilience to Alzheimer's Disease.** *Brain*, in press.

- [93] Momen M., Kearney H., Patterson M., Sample S., **Zhao Z.**, Kim S., **Lu Q.**, Rosa G., Muir P. (2025). **Cross-species analysis of genetic architecture and polygenic risk scores for non-contact ACL rupture in dogs and humans.** *Communications Biology*, 8: 26.
- [92] Kweon H., Burik C., Ning Y., Ahlskog R., Xia C., Abner E., Bao Y., Bhatta L., Faquih T., de Feijter M., Fisher P., Gelemanović A., Giannelis A., Hottenga J., Khalili B., Lee Y., Li-Gao R., Masso J., Myhre R., Palviainen T., Rietveld C., Teumer A., Verweij R., Willoughby E., Agerbo E., Bergmann S., Boomsma D., Børglum A., Brumpton B., Davies N., Esko T., Gordon S., Homuth G., Ikran M., Johannesson M., Kaprio J., Kidd M., Kutalik Z., Kwong A., Lee J., Luik A., Magnus P., Marques-Vidal P., Martin N., Mook-Kanamori D., Mortensen P., Oskarsson S., Pedersen E., Polašek O., Rosendaal F., Smart M., Snieder H., van der Most P., Vollenweider P., Völzke H., Willemsen G., Beauchamp J., DiPrete T., Linnér R., **Lu Q.**, Morris T., Okbay A., Harden K., Abdellaoui A., Hill W., de Vlaming R., Benjamin D., Koellinger P. (2025). **Associations between common genetic variants and income provide insights about the socioeconomic health gradient.** *Nature Human Behaviour*, in press.
- [91] **Miao J.**, **Lu Q.** (2024). **Task-agnostic machine-learning-assisted inference.** *NeurIPS* 2024.
- [90] **Zhao Z.**, **Gruenloh T.**, **Yan M.**, **Wu Y.**, **Sun Z.**, **Miao J.**, **Wu Y.**, **Song J.**, **Lu Q.** (2024). **Optimizing and benchmarking polygenic risk scores with GWAS summary statistics.** *Genome Biology*, 25, 260.
- [89] **Wu Y.\***, **Sun Z.\***, **Zheng Q.**, **Miao J.**, **Dorn S.**, Mukherjee S., Fletcher J., **Lu Q.** (2024). **Pervasive biases in proxy genome-wide association studies based on parental history of Alzheimer's disease.** *Nature Genetics*, 56(12), 2696-2703.
- [88] **Zhao Z.**, **Yang X.**, **Dorn S.**, **Miao J.**, Barcellos S., Fletcher J., **Lu Q.** (2024). **Controlling for polygenic genetic confounding in epidemiologic association studies.** *Proceedings of the National Academy of Sciences*, 121(44): e2408715121.
- [87] **Miao J.**, **Wu Y.**, **Sun Z.**, Miao X., Lu T., Zhao J., **Lu Q.** (2024). **Valid inference for machine learning-assisted genome-wide association studies.** *Nature Genetics*, 56(11), 2361-2369.
- [86] Panyard D., Reus L., Ali M., **Liu J.**, Deming Y., **Lu Q.**, Kollmorgen G., Suridjan I., Wild N., Visser P., Bertram L., Zetterberg H., Blennow K., Gobom J., Western D., Sung Y., Carlsson C., Johnson S., Asthana S., Cruchaga C., Tijms B., Engelman C., Snyder M. (2024). **Post-GWAS multiomic functional investigation of the *TNIP1* locus in Alzheimer's disease implicates mediation through *GPX3*.** *Alzheimer's & Dementia*, 20: 5044-5053.
- [85] Braun A., Lai H., Laxova A., Biller J., Hubertz E., **Zhao Z.**, **Lu Q.**, Muralic S., Brown D., Worthey E., Farrell P. (2024). **Vitamin D status and variable responses to supplements depend in part on genetic factors in adults with cystic fibrosis.** *Journal of Cystic Fibrosis*, 23(4), 754-757.
- [84] IGVF Consortium (2024). **Deciphering the impact of genomic variation on function.** *Nature*, 633, 47-57.
- [83] Furuya S., **Zheng F.**, **Lu Q.**<sup>†</sup>, Fletcher J.<sup>†</sup> (2024). **Separating scarring and selection effect of early life exposures with genetic data.** *Demography*, 61(2): 363-392.
- [82] **Miao J.**, **Wu Y.**, **Lu Q.** (2024). **Statistical methods for gene-environment interaction analysis.** *WIREs Computational Statistics*, 16(1), e1635.
- [81] Fletcher J., **Wu Y.**, **Li T.**, **Lu Q.** (2024). **Interpreting polygenic score effects in sibling analysis.** *PLOS One*, 19(2): e0282212.
- [80] Xu Y., **Sun Z.**, Jonaitis E., Deming Y., **Lu Q.**, Johnson S., Engelman C. (2024). **Apolipoprotein E moderates the association between non-APOE polygenic risk score for Alzheimer's disease and aging on preclinical cognitive function.** *Alzheimer's & Dementia*, 20: 1063-1075.
- [79] **Yan D.\***, **Hu B.\***, Darst B., Mukherjee S., Kunkle B., Deming Y., Dumitrescu L., **Wang Y.**, Naj A., Kuzma A., Zhao Y., Kang H., Johnson S., Cruchaga C., Hohman T., Crane P., Engelman C., Alzheimer's Disease Genetics Consortium (ADGC), **Lu Q.** (2024). **Biobank-wide association scan identifies risk factors for late-onset Alzheimer's disease and endophenotypes.** *eLife*, 12: RP91360.
- [78] Zheng B., Fletcher J., **Song J.**, **Lu Q.** (2024). **Analysis of sex-specific gene-by-cohort and genetic correlation-by-cohort interaction in educational and reproductive outcome using the UK Biobank data.** *Journal of Health and Social Behavior*, 65(3), 432-448.

- [77] Elsayed N., Valenzuela R., Kitchner T., Le T., Mayer J., Tang Z., Bayanagari V., **Lu Q.**, Aston P., Anantharaman K., Shukla S. (2023). **Genetic risk score in multiple sclerosis is associated with unique gut microbiome.** *Scientific Reports*, 13: 16269.
- [76] Furuya S., **Liu J.**, **Sun Z.**, **Lu Q.**<sup>†</sup>, Fletcher J.<sup>†</sup> (2023). **The big (genetic) sort? A research note on migration patterns and their genetic imprint in the United Kingdom.** *Demography*, 60(6): 1649–1664.
- [75] Furuya S., **Liu J.**, **Sun Z.**, **Lu Q.**<sup>†</sup>, Fletcher J.<sup>†</sup> (2023). **Understanding internal migration: a research note providing an assessment of migration selection with genetic data.** *Demography*, 60(6): 1631–1648.
- [74] He Q., Keding T., Zhang Q., **Miao J.**, Russell J., Herringa R., **Lu Q.**, Travers B., Li J. (2023). **Neurogenetic mechanisms of risk for ADHD: examining associations of polygenic scores and brain volumes in a population cohort.** *Journal of Neurodevelopmental Disorders*, 15, 30.
- [73] Huang L., Lai H., **Song J.**, **Zhao Z.**, **Lu Q.**, Murali S., Brown D., Worthey E., Farrell P. (2023). **Impact of intrinsic and extrinsic risk factors on early-onset lung disease in cystic fibrosis.** *Pediatric Pulmonology*, 58: 3071–3082.
- [72] Dong R., **Lu Q.**, Kang H., Suridjan I., Kollmorgen G., Wild N., Deming Y., Van Hulle C., Anderson R., Zetterberg H., Blennow K., Carlsson C., Asthana S., Johnson S., Engelman C. (2023). **CSF metabolites associated with biomarkers of Alzheimer's disease pathology.** *Frontiers in Aging Neuroscience*, 15: 1214932.
- [71] Xu Y., Vasiljevic E., Deming Y., Jonaitis E., Kosciak R., Van Hulle C., **Lu Q.**, Carboni M., Kollmorgen G., Wild N., Carlsson C., Johnson S., Zetterberg H., Blennow K., Engelman C. (2023). **Effect of pathway-specific polygenic risk scores for Alzheimer's disease (AD) on rate of change in cognitive function and AD-related biomarkers among asymptomatic individuals.** *Journal of Alzheimer's Disease*, 94(4), 1587–1605.
- [70] Ch'en P., Gold L., **Lu Q.**, Ye T., Andrews J.<sup>†</sup>, Patel P.<sup>†</sup> (2023). **Exploring risk factors for persistent neurocognitive sequelae after hospitalization for COVID-19.** *Annals of Clinical and Translational Neurology*, 10: 1200–1208.
- [69] Fletcher J., **Wu Y.**, **Zhao Z.**, **Lu Q.** (2023). **The production of within-family inequality: insights and implications of integrating genetic data.** *PNAS Nexus*, 2(4), pgad121.
- [68] Dong R., Denier-Fields D., Van Hulle C., Kollmorgen G., Suridjan I., Wild N., **Lu Q.**, Anderson R., Zetterberg H., Blennow K., Carlsson C., Johnson S., Engelman C. (2023). **Identification of plasma metabolites associated with modifiable risk factors and endophenotypes reflecting Alzheimer's disease pathology.** *European Journal of Epidemiology*, 38, 559–571.
- [67] Pettigrew C., Nazarovs J., Soldan A., Singh V., Wang J., Hohman T., Dumitrescu L., Libby J., Kunkle B., Gross A., Johnson S., **Lu Q.**, Engelman C., Masters C., Maruff P., Laws S., Morris J., Hassenstab J., Cruchaga C., Resnick S., Albert M. (2023). **AD genetic risk and cognitive reserve in relationship to long-term cognitive trajectories among cognitively normal individuals.** *Alzheimer's Research & Therapy*, 15, 66.
- [66] Deming Y., Vasiljevic E., Morrow A., **Miao J.**, Van Hulle C., Jonaitis E., Ma Y., Whitenack V., Kollmorgen G., Wild N., Suridjan I., Shaw L., Asthana S., Carlsson C., Johnson S., Zetterberg H., Blennow K., Bendlin B., **Lu Q.**, Engelman C., the Alzheimer's Disease Neuroimaging Initiative (2023). **Neuropathology-based APOE genetic risk score better quantifies Alzheimer's risk.** *Alzheimer's & Dementia*, 19: 3406–3416.
- [65] **Song J.**, **Zou Y.**, **Wu Y.**, **Miao J.**, **Yu Z.**, Fletcher J., **Lu Q.** (2023). **Decomposing heritability and genetic covariance by direct and indirect effect paths.** *PLOS Genetics*, 19(1): e1010620.
- [64] **Miao J.**<sup>\*</sup>, Guo H.<sup>\*</sup>, **Song G.**, **Zhao Z.**, Hou L.<sup>†</sup>, **Lu Q.**<sup>†</sup> (2023). **Quantifying portable genetic effects and improving cross-ancestry genetic prediction with GWAS summary statistics.** *Nature Communications*, 14, 832.
- [63] Amin V., Fletcher J., **Lu Q.**, **Song J.** (2023). **Re-examining the relationship between education and adult mental health in the UK: a research note.** *Economics of Education Review*, 93, 102354.
- [62] **Panyard D.**, Deming Y., Darst B., Van Hulle C., Blennow K., Kollmorgen G., Suridjan I., Carlsson C., Johnson S., Asthana S., Engelman C.<sup>†</sup>, **Lu Q.**<sup>†</sup> (2023). **Liver-specific polygenic risk score is associated with Alzheimer's disease diagnosis.** *Journal of Alzheimer's Disease*, 92(2): 395–409.
- [61] Zhang Y., Fletcher J., **Lu Q.**, **Song J.** (2023). **Gender differences in the association between parity and cognitive function: evidence from the UK Biobank.** *Social Science & Medicine*, 320: 115649.

- [60] **Miao J., Lin Y., Wu Y.,** Zheng B., Schmitz L., Fletcher J., **Lu Q.** (2022). **A quantile integral linear model to quantify genetic effects on phenotypic variability.** *Proceedings of the National Academy of Sciences*, 119(39): e2212959119.
- [59] Li J., Zhang Q., **Wang Z., Lu Q.** (2022). **Research domain criteria (RDoC) mechanisms of transdiagnostic polygenic risk for trajectories of depression: from early adolescence to adulthood.** *Journal of Psychopathology and Clinical Science*, 131(6), 561-574.
- [58] Zheng B., Fletcher J., **Zheng F., Lu Q.** (2022). **Gene-by-peer-environment interaction effects on cigarette, alcohol, and marijuana use among US high school students of European ancestry.** *Social Science & Medicine*, 309: 115249.
- [57] Lai H., **Song J., Lu Q.,** Murali S., Gajapathy M., Wilk B., Brown D., Worthey E., Farrell P. on behalf of the FIRST Study Group (2022). **Genetic factors help explain the variable responses of young children with cystic fibrosis to vitamin D supplements.** *Clinical Nutrition ESPEN*, 51: 367-376.
- [56] Guo H., Hou L., Shi Y., Jin S., Zeng X., Li B., Lifton R., Brueckner M., Zhao H.<sup>†</sup>, **Lu Q.**<sup>†</sup> (2022). **Quantifying concordant genetic effects of *de novo* mutations on multiple disorders.** *eLife*, 11: e75551.
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- [54] Dong R., Denier-Fields D., **Lu Q.,** Suridjan I., Kollmorgen G., Wild N., Betthausen T., Carlsson C., Asthana S., Johnson S., Zetterberg H., Blennow K., Engelman C. (2022). **Principal components from untargeted cerebrospinal fluid metabolomics associated with Alzheimer's disease biomarkers.** *Neurobiology of Aging*, 117, 12-23.
- [53] **Wu Y.,** Furuya S., **Wang Z.,** Nobles J., Fletcher J.<sup>†</sup>, **Lu Q.**<sup>†</sup> (2022). **GWAS on birth year infant mortality rates provides new evidence of recent natural selection.** *Proceedings of the National Academy of Sciences*, 119(12): e2117312119.
- [52] Wang Y.\* **Wu Y.\*,** Choi J.\* Allington G.\* Zhao S.\* Khanfar M.\* Yang K.\* Fu P., Wrubel M., Yu X., Mekbib K., Ocken J., Smith H., Shohfi J., Kahle K., **Lu Q.**<sup>†</sup>, Jin S.<sup>†</sup> (2022). **Computational genomics in the era of precision medicine: applications to variant analysis and gene therapy.** *Journal of Personalized Medicine*, 12(2), 175.
- [51] Amin V., Fletcher J., **Sun Z., Lu Q.** (2022). **Higher educational attainment is associated with longer telomeres in midlife: evidence from sibling comparisons in the UK Biobank.** *SSM - Population Health*, 17: 101018.
- [50] Schmitz L., Zhao W., Ratliff S., Goodwin J., **Miao J., Lu Q.,** Guo X., Taylor K., Ding J., Liu Y., Levine M., Smith J. (2022). **The socioeconomic gradient in epigenetic aging clocks: evidence from the Multi-ethnic Study of Atherosclerosis and the Health and Retirement Study.** *Epigenetics*, 17(6), 589-611.
- [49] Furuya S., Fletcher J., **Zhao Z., Sun Z., Lu Q.** (2022). **Detecting genetic heterogeneities in response to trauma: the case of 9/11.** *SSM - Mental Health*, 2: 100044.
- [48] Zhang Y.\* **Lu Q.\*,** Ye Y., **Huang K.,** Liu W., **Wu Y., Zhong X.,** Li B., Yu Z., Travers B., Werling D., Li J., Zhao H. (2021). **SUPERGENOVA: local genetic correlation analysis reveals heterogeneous etiologic sharing of complex traits.** *Genome Biology*, 22, 262.
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- [46] Fletcher J., Topping M., **Zheng F., Lu Q.** (2021). **The effects of education on cognition in older age: evidence from genotyped siblings.** *Social Science & Medicine*, 280: 114044.
- [45] **Wu Y., Zhong X., Lin Y., Zhao Z., Chen J.,** Zheng B., Li J., Fletcher J., **Lu Q.** (2021). **Estimating genetic nurture with summary statistics of multi-generational genome-wide association studies.** *Proceedings of the National Academy of Sciences*, 118(25): e2023184118.

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- [39] **Zhao Z.**, **Song J.**, **Wang T.**, **Lu Q.** (2021). **Polygenic risk scores: effect estimation and model optimization.** *Quantitative Biology*, 9(2): 133-140.
- [38] **Huang K.**, **Wu Y.**, Shin J., Zheng Y., Siahpirani A., **Lin Y.**, **Ni Z.**, **Chen J.**, **You J.**, Keles S., Wang D., Roy S., **Lu Q.** (2021). **Transcriptome-wide transmission disequilibrium analysis identifies novel risk genes for autism spectrum disorder.** *PLOS Genetics*, 17(2): e1009309.
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Hehny C., **Ge L.**, Keren B., Timberlake A., Goto J., Mangano F., Johnston J., Butler W., Warf B., Smith E., Schiff S., Limbrick D., Heuer G., Jackson E., Iskandar B., Mane S., Haider S., Guclu B., Bayri Y., Sahin Y., Duncan C., Apuzzo M., DiLuna M., Hoffman E., Sestan N., Ment L., Alper S., Bilguvar K., Geschwind D., Gunel M., Lifton R., Kahle K. (2020). **Exome sequencing implicates genetic disruption of prenatal neuro-gliogenesis in sporadic congenital hydrocephalus.** *Nature Medicine*, 26(11), 1754-1765.

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[2] Wang Q\*, **Lu Q.\***, Zhao H. (2015). **A review of study designs and statistical methods for genomic epidemiology studies using next generation sequencing.** *Frontiers in Genetics*, 6: 149.

[1] **Lu Q.**, Ren S., Lu M., Zhang Y., Zhu D., Zhang X., Li T. (2013). **Computational prediction of associations between long non-coding RNAs and proteins.** *BMC Genomics*, 14(1), 651.

### **Book Chapters**

[2] **Miao J.**, **Lu Q.** (2022). **Identifying genetic loci associated with complex trait variability.** *Handbook of Statistical Bioinformatics (2nd Edition)*. Springer, Berlin, Heidelberg.

[1] **Lu Q.**, Zhao H. (2019). **Improving genetic association analysis through integration of functional annotations of the human genome.** *Handbook of Statistical Genetics (4th Edition)*. John Wiley & Sons.

### **Editorials and Commentary Articles**

[2] Fletcher J., **Wu Y.**, **Lu Q.** (2021). **Polygenic screening: what's the use?** *eLife*, 10: e73193.

[1] Hou L., **Lu Q.**, Yang C., Zhao H. (2021). **Special issue on genome wide association study.** *Quantitative Biology*, 9(2): 105-106.

### **Dissertation**

[1] **Lu Q.** (2017). **Integrative functional annotation of the human genome and its applications in post-GWAS analysis.** Doctoral Dissertation, Yale University.

## **Grants and Awards**

### **Active Funding Support**

R21 AG085162-01 ( <b>Lu</b> ) NIH/NIA Characterizing Pervasive Biases in Genome-wide Association Study Using Family Health History as Proxy Phenotypes Role: PI	09/2023 – 05/2025 \$427,625 total award	2.40 calendar
R01 AG054047-06 (Engelman) NIH/NIA Genomic and Metabolomic Data Integration in a Longitudinal Cohort at Risk for Alzheimer's Disease Role: co-investigator	09/2022 – 08/2025 \$2,285,690 total award	0.96 calendar
U19 AG066567 (Crane, LaCroix) NIH/NIA Adult Changes in Thought (ACT) Research Program Role: co-investigator	05/2021 – 04/2026 \$439,288 total sub award	0.60 calendar

U01 HG012039 (Craven) NIH Linking Variants to Multi-scale Phenotypes via a Synthesis of Subnetwork Inference and Deep Learning Role: co-investigator	07/2021 – 06/2026 \$3,612,171 total award	1.20 calendar
R01 AG073439 (Dumitrescu) NIH/NIA Sex-Specific Genetic Drivers of Alzheimer's Disease Endophenotypes Role: collaborator	09/2021 – 08/2026 \$84,590 total sub award	0.60 calendar
R01 (Slutske) NIH/NIAAA Genes, Neighborhoods, and Alcohol Misuse from Adolescence to Mid-adulthood in the Add Health Study Role: co-investigator	09/2024 – 05/2027 \$944,664 total award	1.20 calendar
RFRF Investigator Grant (Levy) Rosenau Family Research Foundation Family Biobank: Genetics and Genomics of Pediatric Cystic Fibrosis Role: co-investigator	11/2024 – 10/2027 \$374,988 total award	0.48 calendar
R01 AG027161-12 (Johnson) NIH/NIA The Wisconsin Registry for Alzheimer's Prevention Role: co-investigator	06/2023 – 03/2028 \$35,633,636 total award	0.60 calendar
R01 AG082730-01 (Mukherjee) NIH/NIA Genetic Architecture of Pure Alzheimer's Disease and Mixed Pathology Role: co-investigator	07/2023 – 06/2028 \$396,785 total sub award	1.20 calendar
<b><u>Completed Funding Support</u></b>		
Marshfield-UW Pilot Award (Lu and Hebring) UW-Madison Internal Grant Decomposing Direct and Social Genetic Effects on Health Outcomes in a Rural Wisconsin Population Role: MPI	01/2023 – 12/2023 \$50,000 total UW award	0.00 calendar
R01 AG061080-01 (Malecki and Engelman) NIH/NIA Research on Epigenetics, Weathering, Aging, & Residential Disadvantage (REWARD) Study Role: collaborator	07/2019 – 06/2023 \$3,770,540 total award	0.96 calendar
R01 NS106298-01 (Kruer) NIH/NINDS Genomic Insights into the Neurobiology of Cerebral Palsy Role: collaborator	04/2019 – 12/2023 \$79,080 total subaward	0.66 calendar
R21 AG067092-01 (Lu) NIH/NIA Identifying Metabolomic Risk Factors in Plasma and Cerebrospinal Fluid for Alzheimer's Disease Role: PI	09/2020 – 08/2023 \$374,959 total award	1.80 calendar
ICTR AllofUs Voucher (Lu) UW-Madison Internal Grant Producing Polygenic Risk Scores for Hundreds of Human Complex Traits Using AllofUs Role: PI	07/2022 – 10/2022 \$10,000 total award	0.60 calendar

Clinical Research Award (Worthey and Farrell) Cystic Fibrosis Foundation Finding and Integrating Pharma and Nutrition Linked Genomic Variation in Cystic Fibrosis Role: co-investigator	08/2019 – 07/2022 \$494,968 total subaward	0.96 calendar
P50 HD105353-01 (PI: Chang) NIH/NICHD Waisman Intellectual and Developmental Disabilities Research Center Role: co-investigator	06/2021 – 05/2022 \$4,000,000 total award	1.20 calendar
P30 AG017266-21 supp (Fletcher) NIH/NIA Quantifying and Understanding Indirect Genetic Effects on Alzheimer's Disease Role: co-investigator	03/2021 – 02/2022 \$323,801 total award	2.40 calendar
Data Science Initiative (Lu and Kang) UW-Madison Internal Grant Robust Mendelian Randomization Methods to Identify Causal Risk Factors for Alzheimer's Disease Role: multi-PI	09/2018 – 08/2021 \$249,374 total award	0.00 calendar
Waisman Center Pilot Grant (Li and Travers) UW-Madison Internal Grant The Neurogenetics of Comorbid ASD and ADHD Role: co-investigator	08/2019 – 07/2021 \$8,076 total award	0.60 calendar
CHGPM Seed Grant (Li) UW-Madison Internal Grant Leveraging Genomics and Neuroimaging to Improve the Diagnostic Accuracy and Specificity of Autism and ADHD Diagnoses Role: co-investigator	07/2020 – 06/2021 \$50,000 total award	0.00 calendar
R01 AG054047-01 (Engelman) NIH/NIA Genomic and Metabolomic Data Integration in a Longitudinal Cohort at Risk for Alzheimer's Disease Role: co-investigator	06/2019 – 05/2021 \$727,928 total award	0.96 calendar
CDHA Pilot Grant (Lu) UW-Madison Internal Grant Testing Gene-Environment Interactions Without Measuring the Environmental Factor Role: PI	07/2019 – 06/2021 \$48,371 total award	0.00 calendar
CHGPM Seed Grant (Lu) UW-Madison Internal Grant A Pilot Association Study to Identify Genetic Variants Linked to Ebola Disease Severity in Humans Role: PI	07/2019 – 06/2021 \$50,000 total award	0.00 calendar
P30 AG017266 supp (Fletcher) NIH/NIA Applying Biodemography Methods to Advance Our Understanding of Socioeconomic Risk Factors for Alzheimer's Disease Role: co-investigator	07/2019 – 06/2021 \$596,592 total award	0.96 calendar
R01 AG060109 supp (Fletcher and Palloni) NIH/NIA Understanding the Importance of Place of Birth on Alzheimer's Disease Outcomes in the US and UK Role: co-investigator	08/2018 – 07/2020 \$394,203 total award	0.96 calendar

**Consulting**

P30 (Zhao) 09/2018 – 08/2019  
 NIH/NIA  
 Administrative Supplements to Existing NIH Grants and Cooperative Agreement  
 Role: consultant

**Honors and Awards**

2020 American Statistical Association 2020 Outstanding Statistical Application Award  
 2017 Liberty Mutual Insurance Student Poster Award, the 31st New England Statistics Symposium  
 2016 ACGA Trainee Award - Predoctoral Basic Sciences  
 2016 Best Student Poster Award, the 30th New England Statistics Symposium  
 2015 ASHG/Charles J. Epstein Trainee Award for Excellence in Human Genetics Research - Finalist  
 2012 Outstanding Graduate of Tsinghua University

**Fellowships**

2010-2012 Tsinghua Xuetang Talents Program  
 2010 National Scholarship, Ministry of Education of the People's Republic of China  
 2010 Tsinghua Scholarship for Excellence in Academic Performance  
 2009, 2011 Tsinghua Scholarship for Excellence in Extracurricular Work  
 2009, 2010 Tsinghua Scholarship for Excellence in Literature and Art

**Travel Awards**

2016 Travel Fellowship, Alzheimer's Association International Conference 2016  
 2016 Conference Travel Fellowship, Yale Graduate Student Assembly

**Awards and Fellowships Won By Trainees**

2024 ACGA Trainee Award (Jiacheng Miao)  
 2024 ICSA Student Paper Award (Jiacheng Miao)  
 2023 ASHG Award for Trainee Research Excellence - Predoctoral Semifinalist (Yixuan Wu)  
 2023 Hilldale Undergraduate/Faculty Research Fellowship (Yixuan Wu)  
 2022 Hilldale Undergraduate/Faculty Research Fellowship (Zhongxuan Sun)  
 2022 ASA Section on Statistics in Genomics and Genetics Student Paper Award (Jiacheng Miao)  
 2021 Hilldale Undergraduate/Faculty Research Fellowship (Gefei Song)  
 2020 Hilldale Undergraduate/Faculty Research Fellowship (Xiaoyuan Zhong)  
 2019 iBRIGHT 2019 Conference Travel Fellowship (Zijie Zhao)  
 2018 Hilldale Undergraduate/Faculty Research Fellowship (Donghui Yan)

**Presentations****Invited Seminar Talks**

10/2025 Section of Genetic Medicine, University of Chicago  
 04/2025 Center for Genetic Epidemiology, University of Southern California  
 03/2025 Center for Computational Biology and Bioinformatics, Indiana University School of Medicine  
 12/2024 Center for Economic and Social Research, University of Southern California  
 12/2024 PRIMED Consortium Methods Working Group  
 11/2024 Human Genetics Network Online Seminar  
 11/2024 Department of Biostatistics, Epidemiology, and Informatics, University of Pennsylvania  
 10/2024 Department of Mathematics, Indiana University-Purdue University Indianapolis

07/2024 TOPMed Mineralization Working Group  
 04/2024 Center for Human Genomics and Precision Medicine, UW-Madison  
 01/2024 CHARGE Consortium Gene-Lifestyle Interactions Working Group  
 01/2024 The Deep Dementia Phenotyping (DEMON) Network Genetics and Omics Meeting  
 09/2023 Center for the Economics of Human Development, University of Chicago  
 05/2023 School of Data Science, CUHK-Shenzhen, Shenzhen, China  
 03/2023 Princeton Biosociology Research Group, Princeton University  
 11/2022 Department of Statistical Sciences, University of Toronto  
 11/2022 Statistical Methods for Genetics and Genomics (SMG) Seminar, University of Toronto  
 10/2022 Center for Human Genomics and Precision Medicine, UW-Madison  
 02/2022 Department of Biostatistics and Medical Informatics, UW-Madison  
 01/2022 Center for Genomic Science Innovation, UW-Madison  
 10/2021 Statistical Genetics Working Group Seminar, Johns Hopkins University  
 05/2021 Computational Genomics Seminar, University of Chicago  
 03/2021 Genome Sequencing Program (GSP) Methods Working Group  
 12/2020 Department of Biostatistics, University of Florida  
 11/2019 John D. Wiley Seminar Series, Waisman Center, UW-Madison  
 03/2019 Biomedical Data Science PhD Program Student Visit Day, UW-Madison  
 02/2019 Alzheimer's Disease Research Center, UW-Madison  
 11/2018 Center for Demography of Health and Aging, UW-Madison  
 05/2018 Genome Sequencing Program (GSP) Methods Working Group  
 05/2018 Center for Statistical Science, Tsinghua University, Beijing, China  
 04/2018 Alzheimer's Disease Genetics Consortium (ADGC)  
 04/2018 Computation and Informatics in Biology and Medicine Seminar, UW-Madison  
 03/2018 Biomedical Data Science PhD Program Student Visit Day, UW-Madison  
 12/2017 Department of Statistics, UW-Madison  
 11/2017 Department of Mathematical Sciences, Michigan Technological University  
 03/2017 Cushing/Whitney Medical Library, Yale University  
 02/2017 Department of Biostatistics and Department of Genetics, UNC-Chapel Hill  
 01/2017 Department of Biostatistics and Medical Informatics, UW-Madison  
 12/2016 SJTU-Yale Joint Center for Biostatistics, Shanghai, China

### **Invited Conference Talks**

10/2023 Integrating Genetics and the Social Sciences (IGSS) Conference, Boulder, CO  
 03/2023 Frontiers of Economic Analysis with Genetic Data, Chicago, IL  
 12/2022 International Indian Statistical Association 2022 Conference, Bengaluru, India  
 10/2022 CHGPM Precision Medicine Symposium, UW-Madison  
 07/2022 ICSA Canada Chapter Symposium, Banff, Canada  
 05/2021 International Indian Statistical Association 2021 Conference (Virtual Meeting)  
 03/2020 ENAR 2020 Spring Meeting (Virtual Meeting)  
 12/2019 The 11th ICSA International Conference, Hangzhou, China  
 12/2019 2019 International Conference on Data Science, Fudan University, Shanghai, China  
 11/2019 iBRIGHT 2019, MD Anderson Cancer Center, Houston, TX  
 08/2019 The 7th Annual Adult Changes in Thought (ACT) Symposium, Seattle, WA  
 07/2019 Alzheimer's Disease Genetics Consortium (ADGC) Meeting, Los Angeles, CA  
 06/2019 ICSA Applied Statistics Symposium, Raleigh, NC  
 05/2019 Great Lakes Bioinformatics Conference, Madison, WI  
 09/2017 Advanced Psychometrics Methods in Cognitive Aging Research 2017, University of Washington - Friday Harbor Laboratories, Friday Harbor, WA  
 06/2017 The 14th Graybill Conference on Statistical Genomics and Genetics, Colorado State

University, Fort Collins, CO

- 12/2016 The 10th ICSA International Conference, SJTU, Shanghai, China
- 08/2016 Joint Statistical Meetings (JSM), Chicago, IL
- 07/2015 Workshop on Data Science in Biomedicine, HKBU, Hong Kong, China
- 05/2015 Bioinformatics Transition Workshop, SAMSI, Research Triangle Park, NC
- 02/2015 Workshop on Statistical and Computational Challenges in Omics Data Integration, SAMSI, Research Triangle Park, NC

### **Conference Platform Talks**

- 10/2024 Integrating Genetics and the Social Sciences (IGSS) Conference, Stanford University
- 05/2024 European Social Science Genetics Conference (ESSGC), Rotterdam, Netherlands
- 06/2023 The Advances in Social Genomics Conference Series (TAGC), Madison, WI
- 05/2023 European Social Science Genetics Conference (ESSGC), Bologna, Italy
- 09/2022 Integrating Genetics and the Social Sciences (IGSS) Conference, Boulder, CO
- 09/2022 International Genetic Epidemiology Society (IGES) Annual Meeting, Paris, France
- 10/2021 Integrating Genetics and the Social Sciences (IGSS) Conference, Boulder, CO
- 10/2019 International Genetic Epidemiology Society (IGES) Annual Meeting, Houston, TX
- 10/2018 Integrating Genetics and the Social Sciences (IGSS) Conference, Boulder, CO
- 07/2018 Alzheimer's Association International Conference (AAIC), Chicago, IL
- 10/2017 American Society of Human Genetics (ASHG) Annual Meeting, Orlando, FL
- 08/2017 Joint Statistical Meetings (JSM), Baltimore, MD
- 07/2017 Alzheimer's Association International Conference (AAIC), London, UK
- 07/2016 Alzheimer's Association International Conference (AAIC), Toronto, Canada
- 10/2015 American Society of Human Genetics (ASHG) Annual Meeting, Baltimore, MD

### **Poster Presentations**

- 07/2023 Alzheimer's Association International Conference (AAIC), Amsterdam, Netherlands
- 09/2020 Integrating Genetics and the Social Sciences (IGSS) Conference (Virtual Meeting)
- 10/2019 American Society of Human Genetics (ASHG) Annual Meeting, Houston, TX
- 10/2019 NHLBI Bench to Bassinet Research Program Annual Meeting, Rockville, MD
- 10/2018 Integrating Genetics and the Social Sciences (IGSS) Conference, Boulder, CO
- 04/2017 The 31st New England Statistics Symposium, University of Connecticut, Storrs, CT
- 10/2016 American Society of Human Genetics (ASHG) Annual Meeting, Vancouver, Canada
- 07/2016 Alzheimer's Association International Conference (AAIC), Toronto, Canada
- 04/2016 The 30th New England Statistics Symposium, Yale University, New Haven, CT
- 06/2015 ENCODE 2015: Research Applications and Users Meeting, Potomac, MD
- 04/2015 The 29th New England Statistics Symposium, University of Connecticut, Storrs, CT

## **Teaching and Mentorship**

### **Workshop Instructor**

Fall 2023

Frontiers of PGS Construction, Optimization, and Use in the Social Sciences, Integrating Genetics and the Social Sciences 2023 Conference, Boulder, CO

Fall 2017

Advanced Psychometrics Methods in Cognitive Aging Research, University of Washington - Friday Harbor Laboratories

### **Course Instructor**

Spring 2020-2025

BMI 620 - Statistics in Human Genetics, UW-Madison

Spring 2019

STAT 877 / BMI 877 - Statistical Methods for Molecular Biology, UW-Madison  
(co-teach with Christina Kendzierski)

Spring 2018

STAT 922 / BMI 826 - Statistical Methods for Genetics and Metagenomics, UW-Madison  
(co-teach with Zhengzheng Tang)

### **Guest Lecturer**

Fall 2023-2024

BMI 800 - Becoming a Biomedical Data Scientist, UW-Madison

Fall 2020, Spring 2022, Spring 2024

STAT 877 / BMI 877 - Statistical Methods for Molecular Biology, UW-Madison

Fall 2020

MMI 677 - Immune System Genomics, UW-Madison

Fall 2019

PATH 901 - MD-PHD Student Seminar / Journal Club, UW-Madison

Summer 2018

UW Advance - Big Data Program

Spring 2017

Cushing/Whitney Medical Library Bioinformatics Training Workshop, Yale University

Spring 2017

High School Biology, Academy of Our Lady of Mercy - Loralton Hall

Spring 2016

Statistical Methods for Human Genetics, Yale University

Fall 2013-2014

Applied Regression Analysis, Yale University

### **Teaching Assistant**

Spring 2015-2016

Nonparametric Statistical Methods and Their Applications, Yale University

Fall 2013-2014

Applied Regression Analysis, Yale University

### **Research Scientists**

2024- Yuchang Wu

### **Postdoctoral Fellows**

Current positions are listed

2019-2023 Yuchang Wu Assistant Scientist, UW-Madison

### **Doctoral Students Supervised**

Current positions are listed

2021- Jiacheng Miao Biomedical Data Science (co-advised with Lauren Schmitz)

2020-2024 Zijie Zhao Biomedical Data Science  
*Polygenic Risk Score: Model Fine-tuning, Ensemble Learning, and Some Applications*  
Scientist - Human/Clinical Genetics, Bristol-Myers Squibb

2018-2023	Kunling Huang	Statistics <i>Statistical Methods for Integrating Quantitative Trait Loci Annotation in Post-GWAS Analysis</i> Human Genetics Fellow, Schrödinger
2019-2022	Jie Song	Statistics <i>Some Statistical Methods for Polygenic Modeling and Genetic Prediction in Large Biobanks</i> Senior Researcher, WeGene
2018-2020	Daniel Panyard	Epidemiology (co-advised with Corinne Engelman) <i>Leveraging Genomic Data to Study the Cerebrospinal Fluid Metabolome in Brain-Related Phenotypes</i> Postdoc, Stanford University

### Doctoral Dissertation Committee Member

2024-	Sabrina Fluharty	Genetics (advisor: Justin Wolter)
2023-	Kyle Jancola	Cellular & Molecular Pathology (advisor: Gaelen Hess)
2023-	Lichen Dong	Psychology (advisor: James Li)
2021-	Brooke Sasia	Psychology (advisor: James Li)
2020-	Quanfa He	Psychology (advisor: James Li)
2021-2024	Saniya Khullar	Biomedical Data Science (advisor: Daifeng Wang)
2020-2024	Lee Kissel	Neuroscience (advisor: Donna Werling)
2022-2023	Yuexuan Xu	Population Health (advisors: Corinne Engelman, Jason Fletcher)
2022-2023	Diandra Fields	Nutritional Sciences (advisor: Corinne Engelman)
2022	Tun Lee Ng	Statistics (advisor: Michael Newton)
2021-2022	Zijian Ni	Statistics (advisor: Christina Kendziorski)
2021	Quoc Tran	Statistics (advisor: Karl Broman)
2019-2021	Ruocheng Dong	Epidemiology (advisor: Corinne Engelman)
2018-2020	Ziyue Wang	Statistics (advisor: Christina Kendziorski)
2018-2020	Xiuyu Ma	Statistics (advisor: Michael Newton)
2018-2019	Fred Boehm	Statistics (advisor: Karl Broman)
2017-2019	Kathryn Hatchell	Population Health (advisor: Corinne Engelman)
2018	Kailei Chen	Statistics (advisor: Sunduz Keles)
2018	René Welch	Statistics (advisor: Sunduz Keles)
2017-2018	Burcu Darst	Epidemiology (advisor: Corinne Engelman)

### Graduate Research Assistants and Research Rotations

2024	Jin Mu	Biomedical Data Science
2024	Leo Jin	Biomedical Data Science
2024	Shan Leng	Biomedical Data Science
2023	Zhongxuan Sun	Biomedical Data Science
2021	Daniela Mejía	Biomedical Data Science
2021	Siqi Shen	Biomedical Data Science
2020	Jiacheng Miao	Biomedical Data Science
2020	Zijie Zhao	Biomedical Data Science
2019-2020	Yunong Lin	Statistics
2019	Abrar Majeedi	Biomedical Data Science
2019	Tuo Wang	Biomedical Data Science
2019	Lianlian Du	Biomedical Data Science
2019	Li Ge	Biomedical Data Science



2018-2019	Yuchang Wu	Statistics
2018-2019	Yanyao Yi	Statistics
2018	Daniel Panyard	Epidemiology
2017-2018	Bowen Hu	Statistics

### **Master's Students**

First placement after graduation is listed

2025-	Shu Cao	Statistics	
2024-	Meiyi Yan	Statistics	
2023-	Stephen Dorn	BDS	
2024	Noah Nicol	BDS	
2024	Shourya Maheshwari	Statistics	Data Analytics Consultant, Accenture
2022-2023	Tim Gruenloh	BDS	PhD in BDS, UW-Madison
2020-2021	Zijun Feng	Statistics	Database Management, China Energy
2020-2021	Zihang Wang	Statistics	PhD in Biostatistics, Emory University
2019-2021	Yuhan Zhou	Statistics	Data Scientist, Bilibili Inc.
2019-2020	Zheng Ni	Statistics	PhD in IE, Iowa State University
2019-2020	Jiawen Chen	Statistics	PhD in Biostatistics, UNC-Chapel Hill
2018-2020	Jiacheng Miao	Statistics	PhD in BDS, UW-Madison
2018-2020	Jiantong Wang	Statistics	PhD in Business Analytics, U of Cincinnati
2018-2019	Ning Shen	Statistics	PhD in Statistics, UBC

### **Undergraduate Students**

First placement after graduation is listed

2025-	Amy Jin	Neuro / DataSci	
2025-	RanJun Qi	Math / Stats	
2025-	Yifei Wu	Mole&CellBio	
2024-	Bella Ren	Stats / Econ	
2024-	Jonathan Haugstad	Stats / Econ	
2022-	Olivia Yang	Stats / DataSci	
2022-	Qinwen Zheng	Math / Stats / DataSci	
2022-2024	Yixuan Wu	CS / Math / Stats	
2022-2023	John Lorge	Math / Stats	Inventory Coordinator, UW-Madison
2021-2023	Zhongxuan Sun	Stats	PhD in BDS, UW-Madison
2021-2023	Harriet Fu	Gen / Neuro / Zoo	PhD in Biology, University of Pennsylvania
2020-2022	Gefei Song	Biology / Stats	Research Assistant, Houston Methodist
2020-2021	Jihua Liu	Biochem / Stats	Research Specialist, UW-Madison
2020-2021	Fengyi Zheng	Econ / Stats	Assoc Comp Biologist, Broad Institute
2019-2021	Clara Zou	Math / Stats	MS in Statistics, Stanford University
2019-2021	Xiaoyuan Zhong	Math / Econ	PhD in Human Genetics, Univ. of Chicago
2019-2020	Yupei Lin	CS / Stats	PhD in Comp Bio, Baylor College of Med
2019-2020	Tianchang Li	Stats / Psychology	Research Specialist, UW-Madison
2018-2020	Nan Yang	Statistics	MS in Biostatistics, Yale University
2018-2019	Jing You	CS / Math	MS in Data Science, Columbia University
2018-2019	Zijie Zhao	Stats / Econ / Math	PhD in BDS, UW-Madison
2017-2019	Donghui Yan	CS / Math	PhD in Comp Bio, CMU

### **Post-bac or Master-level Research Staff**

First placement after leaving the lab is listed

2022	Ze Yu	Computational Biologist, UTSW Medical center
2022	Jihua Liu	MS in Biostatistics, University of Pennsylvania
2020-2021	Tianchang Li	MS in Artificial Intelligence, Northwestern University
2020-2021	Yunong Lin	PhD in Statistics, University of Oxford

### **Visiting Students and Scholars**

2018	Yiliang Zhang	Visiting Graduate Student, Yale University
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### **Other Mentoring Activities**

2016-2018	Yu Shi	Biostatistics MS Thesis Research, Yale University
2015-2018	Chentian (Lionel) Jin	Undergraduate Student Research, Yale College
2016-2017	Jiawei Wang	Computational Biology Student Rotation, Yale University
2016-2017	Wei (David) Dai	Biostatistics MPH Research, Yale University
2016-2017	Boyang Li	Biostatistics MS Thesis Research, Yale University
2016-2017	Tony Jiang	Undergraduate Student Research, Yale College
2016-2017	Yuhua Zhang	Visiting Undergraduate Student, Shanghai Jiao Tong University
2016	Sarah Abdallah	MD Student Summer Research, Yale University
2016	Derek Ou	MD Student Summer Research, Yale University
2016	Sydney Muchnik	Genetics Research Rotation, Yale University
2016	David Chang	Computational Biology Student Rotation, Yale University
2016	Wei Liu	Visiting Undergraduate Student, Peking University
2016	Zefeng Liu	Visiting Undergraduate Student, Shanghai Jiao Tong University
2016	Qidu He	Visiting Undergraduate Student, Shanghai Jiao Tong University
2015-2016	Fang Fang	Biostatistics MS Thesis Research, Yale University
2015-2016	Xinran Xu	Biostatistics MS Thesis Research, Yale University
2015	Ryan Powles	Computational Biology Student Rotation, Yale University

### **Service and Professional Activities**

#### **Department**

2023	Chair, Social Genomics Faculty Search Committee, BMI Department
2021	Member, BMI Department Strategic Planning Committee
2020-	Member, Admissions Committee, Biomedical Data Science PhD Program
2017-2020	Co-organizer, BMI Weekly Seminar

#### **University**

2025-	Director, Genomics Science Training Program, UW-Madison
2024	Co-director, Genomics Science Training Program, UW-Madison
2018-2023	Member, Cluster Hiring Committee - Initiative in Social Genomics
2018-2022	Member, Cluster Hiring Committee - Functional Genetics/Genomics of Neurodevelopmental and Neurodegenerative Diseases

#### **Grant Review and Conference Organization**

2024-	NIH Study Section Member, AGCD-1
2022-2024	Program Committee Member, American Society of Human Genetics (ASHG)
2019-2021	Program Committee Member, Great Lakes Bioinformatics Conference (GLBIO)
2019-2020	Program Chair, ASA Section on Statistics in Genomics and Genetics

#### **Professional Society Affiliations**

2016- Member, American Statistical Association (ASA)  
2016- Member, Association of Chinese Geneticists in America (ACGA)  
2015- Member, American Society of Human Genetics (ASHG)  
2019-2020 Member, International Society for Computational Biology (ISCB)  
2018-2019 Member, Genetics Society of America (GSA)

### **Editorial Activities**

2022- Associate Editor *Genetics in Medicine Open*  
2021 Guest Editor *Quantitative Biology*

### **Conference Referee**

American Society of Human Genetics (ASHG) Annual Meeting  
Asia Pacific Bioinformatics Conference  
Great Lakes Bioinformatics Conference