Peixin Lu

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Education

- **Wuhan University**   **Wuhan, China**

  Ph.D., Management Science and Engineering   *Sep 2019-Present*

- **Cincinnati Children's Hospital Medical Center**   **Cincinnati, US**

  Visiting scholar, Bioinformatics   *Mar 2019 - Mar 2020*

- **Huazhong University of Science and Technology**   **Wuhan, China**

  Bachelor, Information Management and Information System   *Sep 2013 - Jul 2017*

Skills and Techniques

Programming：Pytorch, TensorFlow, Python, R

Skills：Deep learning, Image Processing, Computer Vision, Bioinformatics

Research Focus

My research focuses on developing models for medical data analysis, such as medical imaging, high-throughput sequencing, and Electronic Health Record (EHR). I am also interested in general in deep learning and machine learning algorithms, particularly those involving multi-modal fusion and medical imaging.

Publications

(* means equal contribution)

1. **Lu, P.,** Hu, L., Zhang, N., Liang, H., Tian, T., & Lu, L. (2021). A two-stage model for predicting mild cognitive impairment to Alzheimer's disease conversion. Frontiers in Aging Neuroscience (SCI Q1, IF=5.75)

2. Zhang K and **Lu, P.*** (2022) "What are the key indicators for evaluating the service satisfaction of WeChat official accounts in Chinese academic libraries?" Library Hi Tech. (SSCI Q2, IF= 2.313)

3. **Lu, P.,** Li, X., Hu, L., & Lu, L. (2021). Integrating genomic and resting State fMRI for efficient autism spectrum disorder classification. Multimedia Tools and Applications, 1-12. (SCI Q3, IF=2.757)

4. **Lu, P.**, Li, X., Lu, L., & Zhang, Y. (2020). The psychological states of people after Wuhan eased the lockdown. PLoS ONE, 15. (SCI Q2，IF=3.240)

5. Zhao, W.*, **Lu, P*.**, Yu, S., & Lu, L. (2020). Consumer health information needs in China – a case study of depression based on a Social Q&A community. BMC Medical Informatics and Decision Making, 20. (SCI Q3, IF=2.769)

6. **Lu, P** and Zhao, W "Research on the privacy protection of electronic health records", Proc. SPIE 11584, 2020 International Conference on Image, Video Processing and

   Artificial Intelligence,1158427 (10 November 2020); https://doi.org/10.1117/12.2584813

7. Li, X., **Lu, P.**, Hu, L., Wang, X., & Lu, L. (2021). A novel self-learning semi-supervised deep learning

network to detect fake news on social media. Multimedia Tools and Applications, 1 - 9. (SCI Q3, IF=2.757)

8. Li, X., **Lu, P.,** Hu, L., Huang, T., & Lu, L. (2020). Factors Associated with Mental Health Results among Workers with Income Losses Exposed to COVID-19 in China. International Journal of Environmental Research and Public Health, 17. (SSCI Q1，IF=3.390)

9. Chen, T., **Lu, P.**, & Lu, L. (2020). Design of ASD Subtyping Approach based on Multi-Omics Data to Promote Personalized Healthcare. HICSS.

10. Yeo, S., Zhu, X., Okamoto, T., Hao, M., Wang, C., **Lu, P.,** Lu, L., & Guan, J. (2020). Single-cell RNA-sequencing reveals distinct patterns of cell state heterogeneity in mouse models of breast cancer. eLife, 9. (SCI Q1 TOP, IF=8.140)

11. Sturchio, A., Marsili, L., Vizcarra, J.A., Dwivedi, A., Kauffman, M., Duker, A., **Lu, P.**, Pauciulo, M., Wissel, B.D., Hill, E., Stecher, B., Keeling, E.G., Vagal, A., Wang, L.L., Haslam, D., Robson, M., Tanner, C., Hagey, D.W., Andaloussi, S.E., Ezzat, K., Fleming, R., Lu, L., Little, M., & Espay, A. (2020). Phenotype-Agnostic Molecular Subtyping of Neurodegenerative Disorders: The Cincinnati Cohort Biomarker Program (CCBP). Frontiers in Aging Neuroscience, 12. (SCI Q2，IF=5.750)

12. Hong, L., Luo, M., Wang, R., **Lu, P.,** Lu, W., & Lu, L. (2018). Big Data in Health Care: Applications and Challenges. Data and Information Management, 2, 175 - 197.

LEADERSHIP EXPERIENCE

2020.09–2021.09   Doctoral Lecture Group of Wuhan University   Lecturer
- Participated in many lectures on and off campus.

2020.03-2021.09   Introduction to Humanities and Social Sciences Classics of Wuhan University, Teaching Assistant, Excellent Teaching Assistant Award
- Assisted in preparation and execution of weekly course section.
- Prepared and presented 2 class lectures.

Award

- 2013-2017   National Scholarship, National Encouragement Scholarship, Voluntary and Public Service Scholarship，Merit Student Award.
- 2017.06   Outstanding Graduates Award
- 2021.06   Advanced Individual for Social Work, Excellent Student Leaders.
- 2021.10   Excellent Teaching Assistant Award