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Hammersmith Hospital Campus, London, W120HS, UK

Institute of Clinical Science

Department of Medicine

Imperial College London

Professional Appointments

- 2025–on **Postdoctoral Research Associate**, Imperial College London, UK
- 2023–2025 **Postdoctoral Research Fellow**, National University of Singapore, Singapore
- 2023–2025 **Postdoctoral Research Fellow**, National University Hospital, Singapore

Education

- 2019–2023 **PhD in Computer science**, University of Technology of Compiègne, France.
- 2016–2019 **MSc in Computer science**, Zhejiang University of Technology, China.
- 2012–2016 **BSc in Geophysics**, Anhui University of Technology, China.

Community Service

- 2026–on **Editorial Board Member**, Information Fusion, [sciencedirect.com/journal/information-fusion](https://www.sciencedirect.com/journal/information-fusion)
- 2023–on **Reviewer**: Trans.MI, Trans.IP, IF, Artificial Intelligence Review, EAAI, IJAR, KBS, ICML, MICCAI, etc.

Teaching & Supervision

- 2023–2024 **Co-Lecturer**: NUS-SPH5104, Analytics for Better Health, Semester 2, NUS
- 2023–2024 **Co-Lecturer**: NUS-SPH6004, Advanced Statistical Learning, Semester 2, NUS
- 2023–on **PhD supervision**: Cancer Survival Analysis with Heterogeneous Medical Data, NUS
- 2023–2026 **PhD supervision**: Toward Reliable AI-driven Clinical Decision Support Systems, NUS
- 2023–2025 **PhD supervision**: Evidential Adversarial Defensive Analysis, Shanghai University
- 2025–on **Undergraduate Thesis**: Reliability Assessment and Parameter Estimation of Systems Subject to Degradation and Random Shocks, UESTC
- 2023–2024 **Undergraduate Thesis**: Ground Truth Reliability Study for Enhanced Healthcare Research, NUS

Grants and Fellowships

- 2025–on **Revolutionizing Cancer Survival Analysis Through Trustworthy AI and Multimodal Integration**
Huang, L (PI); Wang, Z., Dame Julia Higgins Fund. [Award](#)
- 2020–on **Automating Environmental Health Literature Screening Using Large Language models**
Lee, S (PI); Huang, L (Co-PI); Kang, S., Dame Julia Higgins Fund. [Award](#).
- 2023–2025 **Intelligent Network Infrastructure for Healthcare, Cisco- Philips eICU (telemedicine)**
Feng, M (PI); Huang, L, et al. A*STAR, CISCO Systems (USA) Pte. Ltd and NUS [Award: I21001E0002](#)
- 2019–2023 **Labex MS2T, Investments for the future.**
Denoeux, T (PI), ; Huang, L, et al., National Agency for Research, France. [Award: ANR-11-IDEX-0004-02.](#)

Awards

- 2024 **Best Thesis Prize**, SFGBM (French Society of Biological and Medical Engineering)
- Best Paper Awards**, International Journal of Approximate Reasoning, Elsevier
- Highly Cited Paper Award**, BIBE2024
- 2021 Frontrunner 5000 -Top Articles from Outstanding S&T Journals of China
- 2020 Journal of Software High Impact Papers

- 2019 Excellent graduation thesis of Zhejiang University of Technology; Outstanding Graduates of Zhejiang Province
2017 Chinese National Scholarship (The highest honor for graduate students)
2016 Outstanding Graduates of Anhui University of Technology

Selected Invited Presentations

- 2025 **Trustworthy AI healthcare with uncertainty quantification and information fusion.**
Nanyang Technological University (Singapore)
Deep evidential fusion for trustworthy multimodal medical image segmentation.
CNRS, Le GdR IASIS
- 2024 **AI foundation for multimodal dementia analysis.**
Télécom Paris, CREATIS Lab (INSA Lyon), ICube Lab (Strasbourg University), LaBRI Lab (Bordeaux University)
- 2023 **Trust deep learning model in healthcare: From accuracy to reliability.**
3rd Big Data Machine Learning in Healthcare & Olympus ATR
- 2019 **Medical image segmentation with belief function theory and deep learning.**
Harvard Medical School, Oxford University, EPFL

Publication Highlights (See Full list for more Publications)

- 2025 **EsurvFusion: An evidential multimodal survival fusion model based on Epistemic random fuzzy sets.**
Huang, L; *et al.* IEEE Transactions on Fuzzy Systems. doi:[10.1109/TFUZZ.2025.3623879](https://doi.org/10.1109/TFUZZ.2025.3623879)
- 2025 **Evidential time-to-event prediction with calibrated uncertainty quantification.**
Huang, L; *et al.* International Journal of Approximate Reasoning. doi:[10.1016/j.ijar.2025.109403](https://doi.org/10.1016/j.ijar.2025.109403)
- 2025 **Towards accurate and reliable ICU outcome prediction: a multimodal learning framework based on belief function theory using structured EHRs and free-text notes.**
Ruan,Y; Huang, L* (Corresponding); *et al.* Journal of Healthcare Informatics Research. doi:[10.1007/s41666-025-00219-3](https://doi.org/10.1007/s41666-025-00219-3)
- 2025 **DPsurv: Dual-Prototype Evidential Fusion for Uncertainty-Aware and Interpretable Whole-Slide Image Survival Prediction.**
Xing, Y; Huang, L* (Corresponding); *et al.* Arxiv. doi:[10.48550/arXiv.2510.00053](https://doi.org/10.48550/arXiv.2510.00053)
- 2024 **Deep evidential fusion with uncertainty quantification and reliability learning for multimodal medical image segmentation.**
Huang, L; *et al.* Information Fusion. doi:[10.1016/j.inffus.2024.102648](https://doi.org/10.1016/j.inffus.2024.102648)
- 2024 **Has multimodal learning delivered universal intelligence in healthcare? A comprehensive survey.**
Lin, Q; Zhu, Y; Mei, X; Huang, L* (Corresponding); *et al.* Information Fusion. doi:[10.1016/j.inffus.2024.102795](https://doi.org/10.1016/j.inffus.2024.102795)
- 2024 **A review of uncertainty quantification in medical image analysis: probabilistic and non-probabilistic methods.**
Huang, L; *et al.* Medical Image Analysis. doi:[10.1016/j.media.2024.103223](https://doi.org/10.1016/j.media.2024.103223)
- 2024 **An evidential time-to-event prediction model based on Gaussian random fuzzy numbers.**
Huang, L; *et al.* BELIEF 2024 (Best paper award). doi:[10.1007/978-3-031-67977-3_6](https://doi.org/10.1007/978-3-031-67977-3_6)
- 2023 **Application of belief functions to medical image segmentation: A review.**
Huang, L; *et al.* Information fusion. doi:[10.1016/j.inffus.2022.11.008](https://doi.org/10.1016/j.inffus.2022.11.008)
- 2023 **Semi-supervised multiple evidence fusion for brain tumor segmentation.**
Huang, L; *et al.* Neurocomputing. doi:[10.1016/j.neucom.2023.02.047](https://doi.org/10.1016/j.neucom.2023.02.047)
- 2022 **Lymphoma segmentation from 3D PET-CT images using a deep evidential network.**
Huang, L; *et al.* International Journal of Approximate Reasoning. doi:[10.1016/j.ijar.2022.06.007](https://doi.org/10.1016/j.ijar.2022.06.007)
- 2022 **Evidence fusion with contextual discounting for multi-modality medical image segmentation.**
Huang, L; *et al.* MICCAI2022. doi:[10.1007/978-3-031-16443-9_39](https://doi.org/10.1007/978-3-031-16443-9_39)
- 2021 **Belief function-based semi-supervised learning for brain tumor segmentation.**
Huang, L; *et al.* ISBI2021. doi:[10.1109/ISBI48211.2021.9433885](https://doi.org/10.1109/ISBI48211.2021.9433885)
- 2018 **Optimization of deep convolutional neural network for large scale image retrieval.**
Bai, C., Huang, L; *et al.* Neurocomputing. doi:[10.1016/j.neucom.2018.04.034](https://doi.org/10.1016/j.neucom.2018.04.034)