

Zhipeng Deng, M.Sc.

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in Zhipeng Deng

🌐 <http://zhipengdeng.com/>



Employment History

- Mar 2022 – **Research Assistant**, Tokyo Institute of Technology
- Sep 2020 – Jul 2021 **C++ Backend Engineer**, Tencent, FiT, Backend Team.
- Jul 2020 – Sep 2020 **C++ Rendering Engineer**, Bytedance, TikTok, Rendering Engine Team
- Jul 2018 – Oct 2018 **C# Software Engineer**, Huawei Wuhan Research Institute, Hisilicon

Education

- 2021 – present **Ph.D., Medical Image Analysis, Tokyo Institute of Technolog**
supervised by Prof.Kenji Suzuki
- 2019 – 2020 **M.Sc. Information Technology, Hong Kong University of Science and Technol-**
ogy
GPA: 3.86 (First Class Honored Degree)
Thesis title: *Fraud Detection In Customer Transactions.*
- 2015 – 2019 **B.Sc. Computer Science, Wuhan University of Technology**
Major GPA: 88.5 (Ranking: 2/35).
Thesis title: *Playfield Segmentation in Volleyball Games.*

Research Publications

Journal Articles

- 1 **Z. Deng**, Y. Yang, Z. Jin, and K. Suzuki, “Fedal: Federated active learning for efficient annotation strategy in skin lesion analysis,” *In Submission*, vol. 12, 2022.

Conference Proceedings



- 1 **Z. Deng**, Z. Jin, and K. Suzuki, “Radiation dose reduction in digital breast tomosynthesis by massive-training artificial neural network with multi-scale kernels,” in *EMBC*, 2023.
- 2 **Z. Deng**, Y. Yang, K. Suzuki, and Z. Jin, “Fedal: A federated active learning framework for efficient labeling in skin lesion analysis,” in *2022 IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, **Oral**, IEEE, 2022, pp. 1554–1559.

Skills




- Languages **Mandarin Chinese (Native speaker), English (IELTS:7.0), and Japanese (Elementary Proficiency).**
- Coding **C++, Python, Java, SQL, XML/XSL, L^AT_EX, ...**
- Databases **MySQL, SQLite.**
- Misc. **Academic research, L^AT_EX typesetting and publishing.**

Miscellaneous Experience

Awards and Achievements

- 2019  **Excellent Graduates**, Wuhan University of Technology
- 2016  **Merit Student**, Wuhan University of Technology

Fellowships & Scholarships

- 2022 – 2024  **Research Fellow**. Institute of Innovative Research, Tokyo Tech
- 2021 – 2024  **Tsubame Scholarship**. Tokyo Institute of Technology.
- 2021 – 2022  **JASSO Scholarship**. Tokyo Institute of Technology.