

# KENT FUJIWARA, PH. D.

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## Home

151-0063 2-19-6-601 Tomigaya, Shibuya, Tokyo, Japan

070-1530-4576; [kfwara@gmail.com](mailto:kfwara@gmail.com)

## Work: LY Corporation

102-8282 1-3 Kioicho, Chiyoda, Tokyo, Japan

[kent.fujiwara@lycorp.co.jp](mailto:kent.fujiwara@lycorp.co.jp)

<http://kfworks.com/>

<https://github.com/kentfuji/>

## Education

- **The University of Tokyo** — Tokyo, Japan  
*Ph.D.: Apr. 2009 – Mar. 2013*
  - Department of Information and Communication Engineering, Graduate School of Information Science and Technology
  - Thesis title: Non-rigid Registration for Shape Analysis
  - Supervisor: Professor Dr. Katsushi Ikeuchi
- **The University of Tokyo** — Tokyo, Japan  
*M.E.: Apr. 2007 – Mar. 2009*
  - Department of Information and Communication Engineering, Graduate School of Information Science and Technology
  - Thesis title: Simultaneous Non-rigid Registration of Multiple Objects
  - Supervisor: Professor Dr. Katsushi Ikeuchi
- **Keio University** — Kanagawa, Japan  
*B.A.: Apr. 2003 – Mar. 2007*
  - Faculty of Environmental Information
  - Graduation Project : Analysis of Japanese Ancient Bronze Mirrors using Range Data
  - Advisor: Professor Dr. Koichi Furukawa

## Experience

- **LY Corporation (Formerly LINE Corporation)** — Tokyo, Japan  
*Research Scientist: Mar. 2018 – Present*
  - ✓ Proposed machine learning algorithm for analyzing shapes in point cloud format (CVPR 2020)
  - ✓ Organized joint research between LINE and Matsushita Lab. of Osaka University (ICCV 2021 x2, ICRA 2021, IJCV 2022)
  - ✓ Conducted research on skeletal motion analysis (AAAI 2023, ICCV 2023, CVPR 2024)
- **Denso IT Laboratory** — Tokyo, Japan  
*Associate Researcher: Apr. 2016 – Mar. 2018*
  - ✓ Proposed novel machine learning algorithm related to LiDAR 3D sensors
  - ✓ Proposed LiDAR related algorithms for Autonomous Driving division in Denso group
- **NTT Communication Science Laboratories** — Atsugi, Kanagawa  
*Research Associate: Apr. 2014 – Mar. 2016*

- ✓ Proposed 3D reconstruction method from images of specific category.
- ✓ Assisted in external projects dealing with human motion analysis and letter recognition
- **Kagoshima Univ./The University of Tokyo** — Kagoshima/Tokyo, Japan  
*Project Research Associate: Apr. 2013 – Mar. 2014*
  - Supported by the Funding Program for Next Generation World-Leading Researchers (NEXT Program).
  - ✓ Proposal of algorithm for completing shapes in motion sequence.
- **The University of Tokyo** — Tokyo, Japan  
*Research Assistant Apr. 2010 – Mar. 2012, Jan. 2013 – Mar. 2013*
  - Supported by the Global Center of Excellence Program, Japan Society for the Promotion of Science.

## Selected Publication

- Q. Yu, M. Tanaka, and **K. Fujiwara**, "Exploring Vision Transformers for 3D Human Motion-Language Models with Motion Patches," *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024.
- M. Tanaka, and **K. Fujiwara**, "Role-aware Interaction Generation from Textual Description," *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)*, 2023. **(Oral)**
- Q. Yu, and **K. Fujiwara**, "Frame-Level Label Refinement for Skeleton-Based Weakly-Supervised Temporal Action Localization," *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*, 2023. **(Oral)**
- F. Li, **K. Fujiwara**, F. Okura, and Y. Matsushita, "Shuffled Linear Regression with Outliers in Both Covariates and Responses," *International Journal of Computer Vision (IJCV) 2022*: 1-20.
- F. Li, **K. Fujiwara**, F. Okura, and Y. Matsushita, "Generalized Shuffled Linear Regression," *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)*, pp. 6474-6483, 2021. **(Oral)**
- F. Li, **K. Fujiwara**, F. Okura, and Y. Matsushita, "Li, Feiran, Kent Fujiwara, Fumio Okura, and Yasuyuki Matsushita. "A closer look at rotation-invariant deep point cloud analysis," *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)*, pp. 16218-16227, 2021.
- **K. Fujiwara**, T. Hashimoto, "Neural Implicit Embedding for Point Cloud Analysis," *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 11734-11743, 2020.
- **K. Fujiwara**, K. Nishino, J. Takamatsu, B. Zheng, K. Ikeuchi, "Locally Rigid Globally Non-rigid Surface Registration," *Proceedings of IEEE International Conference on Computer Vision (ICCV)*, pg. 1527 - 1534, 2011.

## Skills and Qualifications

- **Fields of Interest:** Machine learning algorithms, geometric data analysis, computer vision, image processing, geometric reconstruction, motion analysis
- **OS:** Mac OS X, Windows, Ubuntu, CentOS
- **Programming:** C++, Java, Matlab, LaTeX, Python, Processing, PostgreSQL, HTML5, CSS3.
- **Tools and Systems:** Eclipse, Microsoft Visual Studio, Visual Studio Code, Vim, Atom, Git, CMake, OpenCV, Qt, tensorflow, keras, pytorch, Jupyter, django.
- **Language:** Japanese, English, (TOEFL CBT: 286/300), French, German (Conversational Level)