

Yao Rong

CONTACT INFORMATION

University of Tübingen
Dpt. of Computer Science
Human-Computer Interaction
Sand 14, 72076, Tübingen, Germany

✉ yao.rong@uni-tuebingen.de
🌐 [Yao Rong](#)
🔗 [Google Scholar/Yao Rong](#)
🐙 [Github/yaorong0921](#)

EDUCATION

Ph.D., Computer Science, 2019.09 – present

- University of Tübingen, Germany
- Adviser: [Professor Enkelejda Kasneci](#)
- Area of Study: Human-Computer Interaction

M.S., Electrical and Computer Engineering, 2016.10 – 2019.06

- Technical University of Munich, Germany
- Thesis Topic: *Real-time Hand Gesture Recognition based on a ToF Camera*
- Area of Study: Human-Machine Communication
- GPA: 3.8 (German GPA: 1.3)

B.Eng., Mechatronics, 2012.09 – 2016.09

- Munich University of Applied Sciences, Germany & Tongji University, China (*Dual degree program*)
- Thesis Topic: *Real-time Hand Gesture Detection and Tracking with OpenCV Library on Android Devices*

RESEARCH PUBLICATIONS

- [1] **Rong, Y.***, Leemann, T.*, Borisov, V., Kaneci, G., & Kasneci, E. (2022)
[Evaluating feature attribution: An information-theoretic perspective](#)
Thirty-ninth International Conference on Machine Learning (ICML)
- [2] **Rong, Y.**, Kassautzki, N.-R., Fuhl, W., & Kasneci, E. (2022)
[Where and what: Driver attention-based object detection](#)
Proceedings of the ACM on Human-Computer Interaction (PACMHCI)
- [3] **Rong, Y.**, Castner, N., Bozkir, E., & Kasneci, E. (2022)
[User Trust on an Explainable AI-based Medical Diagnosis Support System](#)
TRAIT at Conference on Human Factors in Computing Systems (CHI-TRAIT)
- [4] **Rong, Y.**, Xu, W., Akata, Z., & Kasneci, E. (2021)
[Human attention in fine-grained classification](#)
In 2021 British Machine Vision Conference (BMVC)
- [5] **Rong, Y.**, Han, C., Hellert, C., Loyal, A., & Kasneci, E. (2021)
[Artificial intelligence methods in in-cabin use cases: A survey](#)
IEEE Intelligent Transportation Systems Magazine (ITSM)
- [6] **Rong, Y.**, Akata, Z., & Kasneci, E. (2020)
[Driver intention anticipation based on in-cabin and driving scene monitoring](#)
In 2020 IEEE 23rd International Conference on Intelligent Transportation Systems (ITSC)
- [7] Köpüklü, O., Ledwon, T., **Rong, Y.**, Kose, N., & Rigoll, G. (2020)
[Drivermhg: A multi-modal dataset for dynamic recognition of driver micro hand gestures and areal-time recognition framework.](#)
In 2020 15th IEEE International Conference on Automatic Face and Gesture Recognition (FG).

- [8] Fuhl, W., **Rong, Y.**, Motz, T., Scheidt, M., Hartel, A., Koch, A., & Kasneci, E. (2020)
[Explainable online validation of machine learning models for practical applications](#)
 In *2020 25th International Conference on Pattern Recognition (ICPR)*
- [9] Fuhl, W., **Rong, Y.**, & Kasneci, E. (2020)
[Fully convolutional neural networks for raw eye tracking data segmentation, generation, and reconstruction.](#)
 In *2020 25th International Conference on Pattern Recognition (ICPR)*
- [10] Köpüklü, O., **Rong, Y.**, & Rigoll, G. (2019)
[Talking with your hands: Scaling hand gestures and recognition with CNNs.](#)
 In *Proceedings of the IEEE/CVF International Conference on Computer Vision Workshops (ICCVW)*

RESEARCH PROJECTS

Joint Research Project, 2020

- Human Attention in Computer Vision Applications
- with the research group [EML \(Explainable Machine Learning\)](#), University of Tübingen
- Adviser: [Professor Zeynep Akata](#)

Internship, 2018 – 2019

- Real-time Hand Gesture Recognition based on a ToF Camera
- at Infineon Technologies AG, Germany

Research Project, 2019

- "Channel Multiplexing" Module Design
- at the research group Integrated Systems, Technical University of Munich

Research Project, 2018

- Gait Recognition Using a Neural Network Autoencoder
- at the research group Human-Machine Communication, Technical University of Munich

TEACHING EXPERIENCE

University of Tübingen

- Postgraduate seminar on **Advanced Topics in Human-Computer Interaction**, 2021
- Graduate seminar on **Introductory Topics in Human-Computer Interaction**, 2020
- Postgraduate course on **Multimodal Human-Computer Interaction**, 2020
- Mentoring four Master and Bachelor theses, 2020-2021

Technical University of Munich

- (*Teaching Assistant*) Postgraduate course on **SystemC**, 2018

SERVICE

Conference Organizing Committee

- the 14th ACM Symposium on Eye Tracking Research and Applications (ETRA 2022),
[Diversity & Inclusion Chair](#)

Student Advisory Service

- at the Department of Computer Science, University of Tübingen

SKILLS

Programming Languages

- Python, C, C++, Java, Matlab

Languages

- English, German, Chinese (native)

Tools & Libraries

- Pytorch, Tensorflow, TeX, OpenCV, JFace, SWT, Verilog, etc.