

## Yao Rong

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### CONTACT INFORMATION

University of Tübingen  
Dpt. of Computer Science  
Human-Computer Interaction  
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🌐 [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.**, Kassautzki, N.-R., & Kasneci, E. (2022)  
[Where and what: Driver attention-based object detection](#)  
*Proceedings of the ACM on Human-Computer Interaction (PACMHCI)*
- [2] **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)*
- [3] **Rong, Y.\***, Leemann, T.\*, Borisov, V., Kaneci, G., & Kasneci, E. (2022)  
[Evaluating feature attribution: An information-theoretic perspective](#)
- [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.