

CONG YANG

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PERSONAL

Nature: Born on February, 1987. China Citizen.

Languages: Chinese (mother tongue), English (fluent), German (B1).

Current Position: Associate Professor at Soochow University

EDUCATION

University of Siegen, Siegen, Germany *10/2012 - 09/2016*
PhD - Computer Vision and Pattern Recognition
Supervisor: Prof. Dr. Marcin Grzegorzek

Northeast Normal University, Changchun, China *09/2010 - 06/2012*
SIAT - Chinese Academy of Sciences, Shenzhen, China *05/2011 - 05/2012*
Master - Machine Learning and Cloud Computing
Supervisor: Prof. Dr. Cheng-zhong Xu and Prof. Wen-yong Wang

Northeast Normal University, Changchun, China *09/2006 - 07/2010*
Bachelor - Computer Graphics and Software Engineering

WORKING

Soochow University, Suzhou, China *09/2022 - now*
Associate Professor

Horizon Robotics, Nanjing, China *09/2019 - 09/2022*
Senior Researcher, Computer Vision Team Lead

Clobotics, Shanghai, China *11/2017 - 08/2019*
Computer Vision Scientist, Computer Vision Team Lead

INRIA, Nancy, France *10/2016 - 10/2017*
Postdoc Researcher - Computer Vision and Deep Learning
Supervisor: Prof. Dr. Marie-Odile Berger

DFG Research Training Group (GRK 1564), Siegen, Germany *05/2014 - 10/2016*
Research Member - Computer Vision and Pattern Recognition
Supervisor: Prof. Dr. Marcin Grzegorzek and Prof. Dr. Volker Blanz

Jagiellonian University, Krakow, Poland *01/2015 - 10/2015*
Poznan University of Technology, Poznan, Poland
Visiting Scholar - Computer Vision and Human Perception
Cooperators: Prof. Dr. Bipin Indurkhya and Dr. Ewa Lukasik

GRANTS AND QUALIFICATIONS (SELECTED)

- Outstanding Young Scholar, China (2022)
- ALSACE Lorraine Scholarship, France (2016)
- Deutsche Forschungsgemeinschaft (GRK 1564), Germany (2014)
- CSC National Scholarship, China (2012)

RESEARCH INTERESTS

Computer Vision, Machine Learning and their interdisciplinary applications.

SELECTED PROJECTS

(1) Vision-based Drowsiness Detection using Multiple Feature Sensing

Period: 07/2022 - 06/2024

Grant: 22KJB520008

Sponsor: Natural Science Foundation of the Jiangsu Higher Education Institutions of China

(2) BPU-based Environmental Perception Algorithms for Intelligent Vehicles

Period: 09/2020 - 09/2022

Grant: PDT2021005

Sponsor: Horizon Robotics

(3) Multi-modal Human-Computer Interaction in Intelligent Cockpit

Period: 10/2019 - 08/2021

Grant: PDT2020004

Sponsor: Horizon Robotics

(4) Large-scale Fine-grained SKU Classification in Edge and Cloud

Period: 01/2018 - 07/2019

Grant: KB1801ZW

Sponsor: Clobotics

(5) Object Detection and Pose Estimation in Industrial Environments

Period: 10/2016 - 10/2017

Grant: SIRET13001550600012

Sponsor: Loria/INRIA

(6) Pattern Recognition Techniques in Team Management Automation

Period: 10/2016 - 03/2017

Grant: OU00181

Sponsor: FoKoS

(7) Shape-based Object Matching and Classification

Period: 05/2014 - 10/2016

Sponsor: GRK1564 (DFG)

SELECTED PUBLICATIONS

Full list in Google Scholar

- [5] **Cong Yang**, Xun Liu, Hua Zhou, Yan Ke, and John See. “Towards accurate image stitching for drone-based wind turbine blade inspection”. In: *Renewable Energy* 203 (2023), pp. 267–279.
- [4] **Cong Yang**, Zhenyu Yang, Yan Ke, Tao Chen, Marcin Grzegorzec, and John See. “Doing More With Moiré Pattern Detection in Digital Photos”. In: *IEEE Transactions on Image Processing* 32 (2023), pp. 694–708.
- [3] **Cong Yang**, Zhenyu Yang, Weiyu Li, and John See. “FatigueView: A Multi-Camera Video Dataset for Vision-based Drowsiness Detection”. In: *IEEE Transactions on Intelligent Transportation Systems (T-ITS)* 24.1 (2022), pp. 233–246.
- [2] **Cong Yang**, Wenfeng Wang, Yunhui Zhang, Zhikai Zhang, Lina Shen, Yipeng Li, and John See. “MLife: A Lite Framework for Machine Learning Lifecycle Initialization”. In: *Machine Learning* 110.10 (2021), pp. 1–21.
- [1] **Cong Yang**, Bipin Indurkha, John See, and Marcin Grzegorzec. “Towards Automatic Skeleton Extraction with Skeleton Grafting”. In: *IEEE Transactions on Visualization and Computer Graphics (TVCG)* 27.12 (2021), pp. 4520–4532.

SELECTED PATENTS

1. **Cong Yang**, Zhenyu Yang and Weiyu Li; Fatigue state detection method and apparatus, medium, and electronic device, US Patent, US11580757B2, 14/02/2023
2. **Cong Yang**, Yunhui Zhang and Zhikai Zhang; Machine Model Update Method and Apparatus, Medium, and Device, US Patent, US20220198331A1, 23/06/2022
3. Yunhui Zhang, Zhikai Zhang and **Cong Yang**; Behaviour Recognition Method and Apparatus, Medium, and Electronic Device, US Patent, US20220188537A1, 16/06/2022
4. **Cong Yang** and Yan Ke; Method, System and Device for Association of Commodities and Price Tags, US Patent, US10878372B2, 29/12/2020

TEACHINGS

Computer Vision (Chinese and English) Soochow University, China	<i>Summer Term 2023</i>
Computer Vision Practice (Chinese) Soochow University, China	<i>Summer Term 2023</i>
Data Structure (Chinese) Soochow University, China	<i>Winter Term 2022</i>
Data Structure Practice (Chinese) Soochow University, China	<i>Winter Term 2022</i>
Data Mining (English) Visiting Lecturer & University of Economics in Katowice, Poland	<i>Summer Term 2016</i>
Pattern Recognition (English) Lecturer of Practice Course & University of Siegen, Germany	<i>Summer Term 2014</i>
Medical Image Processing (English) Teaching Assistant & University of Siegen, Germany Lecturer: Prof. Dr. Marcin Grzegorzec	<i>Winter Term 2012/2013</i>
Software System Structure (Chinese) Teaching Assistant & Northeast Normal University, China Lecturer: Prof. Dr. Dong-dai Zhou	<i>Summer Term 2011</i>
E-Learning and Educational Technology (Chinese and English) Teaching Assistant & Northeast Normal University, China Lecturer: Prof. Dr. Sokolova Svetlana	<i>Winter Term 2010/2011</i>