HAIWEN HUANG

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EDUCATION

University of Tübingen, Tübingen, Germany   Jan. 2022 –
PhD candidate in Machine Learning
- Autonomous Vision Group, Bosch Industry-on-Campus lab
- Supervisor: Andreas Geiger, Dan Zhang
- PhD topic: Open-world recognition in complex scenes

University of Oxford, Oxford, UK   Oct. 2020 – Sept. 2021
Master of Science in Computer Science, Department of Computer Science
- **Distinction**
- Dissertation: "On Representation Learning for Deterministic Uncertainty Estimation"
- Supervisor: Yarin Gal

Peking University, Beijing, China   Sept. 2015 – July 2019
Bachelor of Science in Information and Computing Science, School of Mathematical Sciences
- Cumulative GPA: 3.73/4.00, Major GPA: 3.80/4.00, Rank: 7/162
- **Outstanding Graduate of Beijing** (top 1% in the university)
- Advisor: Bin Dong

University of California, Los Angeles, USA   Sept. 2017 – Feb. 2018
Exchange Student in Department of Statistics
- CSC Scholarship Recipient
- GPA: 4.0/4.0
- Advisor: Yingnian Wu, Songchun Zhu

PUBLICATIONS AND PREPRINTS

1. **Haiwen Huang**, Andreas Geiger, and Dan Zhang. *"GOOD: Exploring geometric cues for detecting objects in an open world."* ICLR 2023
2. **Haiwen Huang,** Joost van Amersfoort, Yarin Gal, *"Decomposing Representations for Deterministic Uncertainty Estimation."* Bayesian Deep Learning workshop at NeurIPS 2021.
3. Lewis Smith, Joost van Amersfoort, **Haiwen Huang,** S. Roberts, Yarin Gal, *"Can convolutional ResNets approximately preserve input distances? A frequency analysis perspective."*
4. **Haiwen Huang**, Zhihan Li, Lulu Wang, Sishuo Chen, Xinyu Zhou, Bin Dong, *"Feature Space Singularity for Out-of-distribution Detection."* **(Best Paper Candidate)** Safe AI 2021 workshop at the AAAI-2021 conference.
5. **Haiwen Huang**, Chang Wang, and Bin Dong. *"Nostalgic Adam: Weighting More of the Past Gradients when Designing the Adaptive Learning Rate."* IJCAI 2019.

AWARDS AND HONORS (SELECTED)

Outstanding Graduate of Beijing. The highest honor for graduates in Beijing. Top 1% in the university. 2019
Outstanding Undergraduate Scholarship. Top 5% in mathematical academic performance.   2016
Yang Fuqing & Wang Yangyuan Academician Scholarship. Top 1% in academic merit and potential. 2016