

Wei Jiang Xiong

🏠 Aalto University, Espoo, 02150 Finland ☎ (+358) 46 686 0741 ✉ weijiang.xiong@aalto.fi
in [linkedin.com/in/weijiang1998](https://www.linkedin.com/in/weijiang1998) 🐙 [weijiang-xiong.github.io](https://github.com/weijiang-xiong)

EDUCATION

- Aalto University**, Espoo, Finland 2020/09 - 2022/07
Msc in Robotics and Autonomous Systems, Minor in Machine Learning
- Awarded **Full Aalto Scholarship** for Master's study
 - GPA 4.86/5 (96 ECTS) with courses Computer Vision, Bayesian Data Analysis, Digital and Optimal Control, Deep Learning, Probabilistic Machine Learning, Programming Parallel Computers
- Ecole Polytechnique Fédérale de Lausanne, EPFL** 2021/09 - 2022/02
Exchange Study in Robotics and Machine Learning
- Awarded **Swiss-European Mobility Scholarship** during exchange study
- Tongji University**, Shanghai, China 2015/09 - 2020/07
Bsc in Mechanical Engineering (Specialization: Mechatronics)
- GPA: 4.58/5.0 (equivalent to 90.8/100); Ranking: 3/114 (top 3%)
 - Granted the honor of **Excellent Graduate Student** in Shanghai (top 3%)
 - Seized the **Scholarship for Excellence** in three continuous academic years

PUBLICATION

- [1] Changhong Fu, **Wei Jiang Xiong**, Fuling Lin, and Yufeng Yue. "Surrounding-Aware Correlation Filter for UAV Tracking with Selective Spatial Regularization." *Signal Processing* (2019): 107324. (**First student author**, CAS JCR **Q1**, **Top Journal**, 2018 IF = **4.086** [[paper](#)] [[video](#)] [[code](#)])
- [2] Changhong Fu, Yujie He, Fuling Lin, and **Wei Jiang Xiong**. "Robust Multi-Kernelized Correlators for UAV Tracking with Adaptive Context Analysis and Dynamic Weighted Filters." *Neural Computing and Applications* (2020): 1-17. (CAS JCR **Q2**)

PROJECT EXPERIENCES

- Multimodal Inference in Bayesian Deep Learning** 2021/06 - 2021/08
Research Assistant in [Probabilistic Machine Learning Group](#), Aalto University
- Augmented Linear and Conv layers with a flexible stochastic part based on Normalizing Flows
 - Optimized the flow-based posterior with Variational Inference to model input uncertainty
 - Improved calibration and accuracy of Feed-forward DNNs in Image Classification task
- LiDAR-Based Object Detection for Autonomous Driving** 2020/07 - 2020/08
Internship in Perception Algorithm at [Hesai Technology](#), Shanghai
- Conducted literature survey on point cloud-based 3D detection and recent state-of-the-arts methods
 - Exploited multi-frame fusion and Conv-LSTM for robust 3D object detection with temporal information
- Visual Object Tracking for UAV** 2018/10 - 2020/06
Research Assistant in [Vision4Robotics Group](#), Tongji University
- Dual Attention Fusion for Tracking, DAFT (Bachelor's Thesis)
 - Proposed an early-and-late fusion approach for correlation filter (CF) and siamese network (SiamNet)
 - Strengthened SiamNet with the response map of CF, cleansed the training data of CF with SiamNet
 - Obtained significant promotion in precision and robustness compared to the baseline trackers
 - SASR Tracker for UAV (Paper published on *Signal Processing*)
 - Fused CNN-based features and hand-crafted features to provide diversified object descriptions
 - Enhanced the capability of the tracker by incorporating surrounding information
 - Leveraged Alternating Direction Method of Multipliers for efficient tracker optimization

SKILLS

Programming Libraries	Matlab, Python, C++ (basic) PyTorch, Sklearn	Languages Dev Tools	Chinese (native), English (C1), Deutsch (B1) Linux, Git, Latex, SQL
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