FANYOU WU

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EDUCATION

Purdue University Jan 2018 - **Dec 2021**
Ph.D in Forestry *Machine Learning Application in Forest Products*

University of Eastern Finland Sep 2015 - Apr 2017
M.S. in Wood Material

Nanjing Forestry University Sep 2011 - Jun 2015
B.E in Wood Material

INTERNSHIP

Envision Digital Aug 2017 - Dec 2017
Machine Learning Engineer
Develop prescriptive method for route optimization problems.

SELECTED PUBLICATIONS

Wu, F., Gazo, R., Haviarova, E., & Benes, B. (2021). Deep BarkID - A Portable Tree Bark Identification System by Knowledge Distillation. European Journal of Forest Research. 🌲 [*publishing*]
Wu, F., Gazo, R., Haviarova, E., & Benes, B. (2021). Wood identification based on longitudinal section images by using deep learning. Wood Science and Technology, 55(2), 553-563. 🌲 [*link*]
Wu, F., Gazo, R., Haviarova, E., & Benes, B. (2019). Efficient Project Gradient Descent for Ensemble Adversarial Attack. IJCAJ workshop. 📷 [*link*]
Liu, Y., **Wu, F.**, Lyu, C., Liu, X., & Liu, Z.,(2021). Behavior2vector: Embedding Users' Personalized Travel Behavior to Vector. IEEE Transactions on Intelligent Transportation Systems. 🚦 ✍ [*link*]
Liu, Y., **Wu, F.**, Lyu, C., Liu, X., Liu, Z. & Ye, J.,(2021). Learning to Reposition on an Online Taxi-hailing Platform. 🚦 📖 ✍
*🌲 Forestry | 📷 Computer Vision | 🚦 Transportation | 📖 Under Review | ✍ Co-first Author

COMPETITIONS

Amazon Last Mile Routing Research Challenge 2021
6th [*link*]
Develop prescriptive method for route optimization problems.

CVRP 2021 The 2nd Agriculture-Vision Prize Challenge 2021
2nd, 3000+1200 USD [*link*]
Develop models for farmland prediction based on image segmentation models.

NeurIPS 2020 Traffic4cast Competition 2020
2nd, 5000 USD [*link*]
Develop models for traffic map movies prediction based on image segmentation models.

KDD CUP 2020 Reinforcement Learning Competition Track 2020
1st in Reposition Track, 8000 USD [*link*]
Develop vehicle repositioning models based on Deep-Q learning.

IJCAI-19 Alibaba Adversarial AI Challenge-Competition 2019
1st in Traget Attack Track, 5000 USD [*link*]
Develop adversarial attack methods based on a modification of Projection Gradients Descents.

KDD CUP 2019 Regular Machine Learning Competition Track 2019
4th, 1000 USD [*link*]
Develop transportation recommendation models based on tree ensemble and node embedding.

Other Competitions 2017 – 2018
In total, more than 30000 USD [*link*]
Develop competitions solution mainly based on classic data mining models.