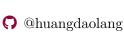
## **Daolang Huang**

☑ daolang.huang@aalto.fi



Google scholar

**y** @DaolangHuang





## Summary

**Website** 

I am a second-year PhD student at Aalto University, my research primarily focuses on amortized inference, leveraging neural networks to expedite various Bayesian inference tasks, with a strong interest in Bayesian experimental design, Bayesian optimization, simulation-based inference, and meta-learning, I am passionate about exploring and developing innovative methods to enhance model efficiency in complex inferential processes.

### **Education**

2022.07 - present

PhD, Doctoral progamme in Science

Aalto University, Finland

Supervisors: Prof. Samuel Kaski (Aalto University and The University of Manchester),

Prof. Luigi Acerbi (University of Helsinki)

Fully funded by Finnish Center for Artificial Intelligence (FCAI)

2020.09 - 2022.05

MSc, Machine Learning, Data Science and Artificial Intelligence

Aalto University, Finland

GPA: 4.68/5 (Major 5/5)

Master thesis: Bayesian optimization augmented with actively elicited expert knowl-

edge

2016.09 - 2020.07

BSc, Computer Science and Technology.,

Jinan University, China

GPA: 87/100 (Major 89/100)

Bachelor thesis: Multi-Modal Fusion for Fake News Detection

### **Publications**

- D. Huang, A. Bharti, A. Souza, L. Acerbi, and S. Kaski, "Learning robust statistics for simulation-based inference under model misspecification," in Advances in Neural Information Processing Systems (NeurIPS), Dec. 2023.
- D. Huang, M. Haussmann, U. Remes, et al., "Practical equivariances via relational conditional neural processes," in Advances in Neural Information Processing Systems (NeurIPS), Dec. 2023.
- D. Huang, L. Filstroff, P. Mikkola, R. Zheng, M. Todorovic, and S. Kaski, "Augmenting bayesian optimization with preference-based expert feedback," in ICML 2023 Workshop The Many Facets of Preference-Based Learning, Jul. 2023.

- **D. Huang**, L. Filstroff, P. Mikkola, R. Zheng, and S. Kaski, "Bayesian optimization augmented with actively elicited expert knowledge," *arXiv preprint arXiv:2208.08742*, 2022.
- **D. Huang** and R. F. Perez, "Sseldnet: A fully end-to-end sample-level framework for sound event localization and detection," *Detection and Classification of Acoustic Scenes and Events (DCASE)*, 2021.
- R. Zheng, Y. Zhang, **D. Huang**, and Q. Chen, "Sequential convolution and runge-kutta residual architecture for image compressed sensing," in *European Conference on Computer Vision (ECCV)*, Springer, 2020, pp. 232–248.

### **Experience**

2022.07 - present

2021.10 - 2022.05

#### ■ Doctoral Researcher

Aalto University

Position-based doctoral researcher in Probabilistic Machine Learning Group (Aalto University) and Machine and Human Intelligence group (University of Helsinki)

Topic: Amortized inference for decision-making aware Bayesian experimental design

**■** Thesis Worker

Aalto University

Master thesis worker in Probabilistic Machine Learning Group (PML), supervised by

Prof. Samuel Kaski

Topic: Human-in-the-Loop Bayesian Optimization

2021.6 – 2021.08 **Summer Intern** 

Aalto University

Summer intern in Probabilistic Machine Learning Group (PML), supervised by Prof.

Samuel Kaski and Dr. Louis Filstroff

Topic: Targeted-aware Bayesian active learning

2017.2 – 2020.08 **Startup Founder & Manager** 

EDM Heaven

Specialized in customized music services for musicians and producers, including mixing and mastering, catering to diverse client requirements and genres

2019.6 – 2019.08 **Summer Intern** 

Neuedu Education Technology Co., Ltd. Summer intern, Python developer

## **Skills**

Languages English (C1), Mandarin (native), Finnish (basic)

Programming Python, Java, C, R

Data Science Pytorch, sklearn, scipy, numpy, pandas, ...

# Teaching

Summer 2024	Summer Intern Supervisor, Xinyi Wen, Aalto University
Spring 2024	Master's Thesis Supervisor, Xinyu Zhang, Aalto University
	Bachelor's Thesis Supervisor, Filip Eller, Aalto University
	Bachelor's Thesis Supervisor, Petrus Nikoskinen, Aalto University
	Teaching Assistant, Deep learning, Aalto University
Autumn 2023	Tutor, Seminar in computer science, Aalto University
Spring 2023	Teaching Assistant, Deep learning, Aalto University
Spring 2022	Teaching Assistant, Deep learning, Aalto University
Spring 2020	<b>Teaching Assistant</b> , C Programming, Jinan University-University of Birmingham Joint In-
	stitute

## **Events**

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2023.12		Poster, Neurips 2023
		Poster, ELLIS Unit Helsinki pre-NeurIPS Fest 2023
2023.11		Talk, Mathematical perspective on machine learning seminar, University of Helsinki
		Talk, FCAI AI day
2023.09		Poster, ELLIS RobustML Workshop
2023.08		Poster and Talk, ELLIS Doctoral Symposium 2023
2023.07		Poster, ICML 2023 workshop The Many Facets of Preference-based Learning

# **Awards and Achievements**

2021	Dean's List Scholarships, Aalto University
	International Talent Program, Aalto University
2020	Aalto University Scholarship (100% tuition waiver), Aalto University
2019	Second-class Scholarship for Outstanding Students, <i>Jinan University</i>
2018	First-class Scholarship for Outstanding Students, Jinan University
2017	Third-class Scholarship for Outstanding Students, Jinan University