

# XIDONG FENG

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## EDUCATION

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- University College London**, London, UK Sep 2020 - Present  
Ph.D., Computer Science, Advisor: Jun Wang
- Tsinghua University**, Beijing, China July 2016 - July 2020  
B.E. in Automation Major GPA: 3.6/4.0
- Tsinghua University**, Beijing, China July 2018 - July 2020  
Minor in Statistics Minor GPA: 3.88/4.0

## WORK EXPERIENCE

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- Internship at MEGVII/Beijing Office** July 2019 - Sep 2019
- Researched on real-time detection of 3D-box for vehicles in traffic surveillance.

## OPEN-SOURCE PROJECTS

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- (400 stars) TorchOpt: A high-performance optimizer library built upon PyTorch for easy implementation of functional optimization and gradient-based meta-learning. In <https://github.com/metaopt/torchopt>
- ChessGPT: Bridging Policy Learning and Language Modeling. In <https://github.com/waterhorse1/ChessGPT>

## PREPRINTS

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- **X. Feng\***, Y. Luo, Z. Wang et al. “ChessGPT: Bridging Policy Learning and Language Modeling”. In: arXiv preprint arXiv:2306.09200 (under submission of NeurIPS 2023 dataset and benchmark track)
- J. Kuba\*, **X. Feng\***, et al. “Heterogeneous-Agent Mirror Learning: A Continuum of Solutions to Cooperative MARL”. In: arXiv preprint arXiv:2112.15400 (under submission of NeurIPS 2023)

## PUBLICATIONS

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- R. Jie\*, **X. Feng\***, B. Liu\* and X. Hai\* et al. “TorchOpt: An Efficient Library for Differentiable Optimization”. In: NeurIPS 2022 OPT workshop
- D. Mguni, H. Chen, T. Jafferjee, J. Wang, L. Yue, **X. Feng\*** et al. “MANSA: Learning Fast and Slow in Multi-Agent Systems”. In: ICML 2023
- R. Lin, Y. Li, **X. Feng\*** et al. “Contextual Transformer for Offline Reinforcement Learning”. In: NeurIPS 2022 Foundation Model workshop
- **X. Feng\***, B. Liu\*, et al. “A Theoretical Understanding of Gradient Bias in Meta-Reinforcement Learning”. In: NeurIPS 2022
- Y. Chen, Y. Yang, T. Wu, S. Wang, **X. Feng**, et al. ”Towards Human-Level Bimanual Dexterous Manipulation with Learning”. In: NeurIPS 2022 (Dataset and Benchmark Track).
- **X. Feng\***, O. Slumbers\* et al. “Neural Auto-Curricula in Two-Player Zero-Sum Games”. In: NeurIPS 2021
- **X. Feng**, C. Chen et al. “CMML: Contextual Modulation Meta Learning for Cold-Start Recommendation”. In: CIKM 2021

- . H. Fu, H. Tang, J. Hao, C. Chen, **X. Feng** et al. “Towards effective context for meta-reinforcement learning: an approach based on contrastive learning”. In: AAAI 2021
- . W. Li\*, **X. Feng\*** et al. “MRI reconstruction with interpretable pixel-wise operation by reinforcement learning”. In: AAAI 2020
- . **X. Feng**, Z. Cen, J. Hu et al. “Vehicle Trajectory Prediction Using Intention-based Conditional Variational Autoencoder”. In: 2019 22st International Conference on Intelligent Transportation Systems (ITSC).IEEE. 2019.
- . **X. Feng**, J. Hu et al. “Autonomous Lane Change Decision Making Using Different Deep Reinforcement Learning Methods”. In: CICTP 2019. 2019, pp. 5563–5575.