Yiheng Lin

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Department of Computing and Mathematical Sciences, Caltech

EDUCATION

- **California Institute of Technology (PhD Student)** — Pasadena, CA
  Major in Computing and Mathematical Sciences. — *Sep 2020 – Now*

- **Tsinghua University (Bachelor of Engineering)** — Beijing, China
  Major in Computer Science and Technology (Yao Class). — *Aug 2016 – Jun 2020*

HONORS

- Spotlight presentation at the 35th Conference on Neural Information Processing Systems (Virtual, 2021);

- Invited presentation at 2021 INFORMS Annual Meeting (Virtual, 2021);

- Invited presentation at 2021 Asilomar Conference on Signals, Systems, and Computers (Virtual, 2021);

- Oral presentation at ACM SIGMETRICS 2020 (Virtual, 2020);

- Kortschak Scholar (Prize fellowship founded by Walter and Marcia Kortschak) (CMS, Caltech, 2020);

- Yao Award, Recognition Prize (Grant named after Prof. Andrew Chi-Chih Yao; About 10 recipients each year) (IIIS, Tsinghua University, 2019);

- Scholarship of Scientific Innovation (Tsinghua University, 2019);

- Scholarship of Social Work (IIIS, Tsinghua University, 2018);

- Scholarship of Academic Excellence (Tsinghua University, 2017);

- First Prize in China Mathematics Olympiad (top 30) and selected as one of students in Prof. Andrew Chi-Chih Yao's class (About 35 undergraduates each year) (Chinese Mathematical Society, 2015).

PUBLICATIONS

- G. Goel*, **Y. Lin***, H. Sun*, and A. Wierman, "Beyond Online Balanced Descent: An Optimal Algorithm for Smoothed Online Optimization." Advances in Neural Information Processing Systems 32 (2019). (Spotlight, $< 3\%$).[**arXiv**]

- **Y. Lin**, G. Goel, and A. Wierman, "Online Optimization with Predictions and Non-convex Losses." Proceedings of the ACM on Measurement and Analysis of Computing System 4, 1(2020), 18. [**arXiv**]

- S. Shi*, **Y. Lin***, S. Chung, Y. Yue, and A. Wierman, "Online Optimization with Memory and Competitive Control." Advances in Neural Information Processing Systems 33 (2020).[**arXiv**]

- G. Qu, **Y. Lin**, A. Wierman, and N. Li, "Scalable Multi-Agent Reinforcement Learning for Networked Systems with Average Reward." Advances in Neural Information Processing Systems 33 (2020).[**arXiv**]

- **Y. Lin**, G. Qu, L. Huang, and A. Wierman. "Multi-Agent Reinforcement Learning in Stochastic Networked Systems." In Thirty-Fifth Conference on Neural Information Processing Systems (2021). [**arXiv**]

- **Y. Lin***, Y. Hu*, H. Sun*, G. Shi*, G. Qu*, and A. Wierman. "Perturbation-based Regret Analysis of Predictive Control in Linear Time Varying Systems." In Thirty-Fifth Conference on Neural Information Processing Systems (2021). (Spotlight, $< 3\%$).[**arXiv**]

PREPRINTS

- W. Pan, G. Shi, **Y. Lin**, and A. Wierman. "Online Optimization with Feedback Delay and Nonlinear Switching Cost." arXiv preprint arXiv:2111.00095 (2021). [**arXiv**]