

Justin Khim

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Employment

Applied Scientist II

Sponsored Brands Advertising, Amazon.

January 2021–Present.

- Develop, productionize, and analyze advertising-facing recommendation systems.
- Big data manipulation with Spark on EMR clusters and CDK-managed workflows.

Postdoctoral Researcher

Machine Learning Department, Carnegie Mellon University.

August 2019–December 2020.

Education

PhD in Statistics

The Wharton School, University of Pennsylvania

May 2019

Bachelor of Science with Honor, Mathematics

California Institute of Technology

June 2014

GPA: 3.9

Papers

Singh, S. and Khim, J. 2022. Optimal binary classification beyond accuracy. Submitted.

Khim, J. and Loh, P. 2021. Permutation tests for infection graphs.

Journal of the American Statistical Association 116 (534), 770-782.

Bali, S., Zheng, S., Gupta, A., Wu, Y., and Chen, B., Chowdhury, A., and Khim, J. 2021. Prediction of boreal peatland fires in Canada using spatio-temporal methods. *Climate Change AI, ICML*.

Srinivasan, V., Khim, J., Banerjee, A., and Ravikumar, P. 2020. Subseasonal climate prediction in the western US using bayesian spatial models. *Uncertainty in Artificial Intelligence*, 961-970, 2021.

Khim, J., Leqi, L., Prasad, A., and Ravikumar, P. 2020. Uniform convergence of rank-weighted learning. *International Conference on Machine Learning*.

Xu, Z., Dan, C., Khim, J., and Ravikumar, P. 2020. Class-weighted classification: trade-offs and robust approaches. *International Conference on Machine Learning*.

Kim, J., Gong, L., Khim, J., Weiss, J., and Ravikumar, P. 2020. Improved clinical abbreviation expansion via non-sense-based approaches. *Machine Learning for Health Workshop (ML4H)*, 161-178.

Khim, J., Jog, V., and Loh, P. 2019. Adversarial influence maximization.

IEEE International Symposium on Information Theory.

Khim, J. and Loh, P. 2017. Confidence sets for the source of a diffusion in regular trees.

IEEE Transactions on Network Science and Engineering. Volume 4, Issue 1.

Khim, J., Jog, V., and Loh, P. 2016. Computing and maximizing in linear threshold and triggering models. *Advances in Neural Information Processing Systems*.