Datong Paul ZHOU

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 Meta (formerly Facebook) Senior Research Scientist (Machine Learning), Facebook Communities Technical lead of a team of 7 ranking and product engineers and founding member of a new "Sharing & Invites" team to drive daily active users in communities by >6M/day Built and scaled the Online Events product to 30M monthly active users with recommender systems (retrieval, ranking, value model, diversity) Intern manager (2020, 21), new hire mentor, frequent interviewer (>130 interviews) Proven track record of collaborating with cross-functional organizations (e.g. News Feed, Notifications) and different functions (PM, DS, DE, UX Research, Design) 	Seattle, WA 01/2019 – current
 Meta (formerly Facebook) Software Engineer Intern, News Feed Backend Machine Learning Team Trained classifiers using Neural Networks and Boosted Decision Trees to predict likelihood of users forwarding public content to their friends in Messenger Set up logging and data processing pipelines in PHP and Hive to extract user and content features (>100 million rows per day) in real-time Implemented an online learning framework to adaptively show content to users 	Seattle, WA 05/2018 – 07/2018
 OhmConnect, Inc. Consultant and Subcontractor Set up randomized experiments and performed A/B testing to achieve 14% treatment effect of monetary incentives on reduction in peak-hour electricity usage of 7000 users Validated findings with time-series analysis and regression in scikit-learn and pandas Used optimization algorithms to target best users to increase per-dollar yield by 40% 	San Francisco, CA 08/2015 – 06/2018
EDUCATION	
 University of California, Berkeley PhD, Mechanical Engineering. GPA: 3.98/4.0 Academic Adviser: Prof. Claire J. Tomlin (EECS) Award: Berkeley Fellowship for Graduate Study (top scholarship for doctoral students) Expertise: Machine Learning, Online Learning, Algorithms, Experimental Design, Statistical Hypothesis Testing, Data Mining, Control and System Theory, Game Theory 	Berkeley, CA 08/2014 – 12/2018
 MS, Electrical Engineering and Computer Sciences. GPA: 4.0/4.0 Statistical Learning Theory, Machine Learning, Stochastic Processes, System Theory 	08/2015 - 05/2016
 MA, Mathematics. GPA: 4.0/4.0 Optimization, Dynamical Systems, Differential Equations, Numerical Mathematics 	08/2016 - 05/2018
 Massachusetts Institute of Technology (MIT) Visiting Scholar Designed human-in-the-loop control algorithms for electricity consumption models Modeled peer effects and social influence in networks by utilizing smart meter data 	Cambridge, MA 09/2016 – 12/2016
Technische Universität MünchenBS, Mechanical Engineering. GPA in top 1% of class• Focus: Computational Mechanics, Control Theory	Munich, Germany 10/2011 – 03/2014

SELECTED PUBLICATIONS

- **D.P. Zhou** and C.J. Tomlin. <u>Budget-Constrained Multi-Armed Bandits with Multiple Plays</u>. Proceedings of the 32nd AAAI Conference on Artificial Intelligence, 2018.
- **D.P. Zhou**, Q. Hu, and C.J. Tomlin. <u>Quantitative Comparison of Data-Driven and Physics-Based Models for</u> <u>Commercial Building HVAC Systems</u>. *Proceedings of the 2017 American Control Conference*.
- **D.P. Zhou**, M. Balandat, and C.J. Tomlin. <u>A Bayesian Perspective on Residential Demand Response Using</u> <u>Smart Meter Data</u>. 54th Annual Allerton Conference on Communication, Control, and Computing, 2016.

SKILLS

- Production ML Systems, Recommender Systems, Deep Learning, Auctions/Bidding, Causal Inference
- Python, Java, C++, PHP, SQL, Apache Hive, HTML, scikit-learn, pandas, Unix/Linux