

EDUCATION	<p>Ph.D. in Electrical and Computer Engineering May '21 (expected) <i>University of Illinois at Urbana-Champaign, Urbana, IL, USA</i> Advisor: Sewoong Oh, CSE, University of Washington, Seattle</p> <p>Master of Science in Electrical and Computer Engineering May '17 <i>University of Illinois at Urbana-Champaign, Urbana, IL, USA</i> Advisor: Sewoong Oh, Thesis: "Collaborative ranking from ordinal data"</p> <p>Bachelor of Technology (Honors) in Electrical Engineering Jul '14 minor in Operations Research <i>Indian Institute of Technology Madras, Chennai, India</i></p>
EXPERIENCE	<p>UIUC, <i>Graduate Research Assistant</i>, Urbana, IL May '14 – present</p> <p>Google, Cloud AI, <i>Student Researcher</i>, Sunnyvale, CA May '17 – Jul '18</p> <p>Google Research, <i>Software Engineering Intern</i>, Mountain View, CA May '16 – Aug '16</p> <p>TU-Dresden, <i>Research Praktikum (Intern)</i>, Dresden, Germany May '13 – Jul '13</p> <p>ST-Ericsson, <i>Software Engineering Intern</i>, Bengaluru, India May '12 – Jul '12</p>
PUBLICATIONS ([†] alphabetical ordering of authors)	<p>K. Thekumparampil, P. Jain, P. Netrapalli, S. Oh, "Projection Efficient Subgradient Method and Optimal Nonsmooth Frank-Wolfe Method", <i>Neural Information Processing Systems (NeurIPS)</i>, Online, 2020, Spotlight presentation (Spotlight acceptance rate: 3.0%)</p> <p>Z. Lin, K. Thekumparampil, G. Fanti, S. Oh, "InfoGAN-CR: Disentangling Generative Adversarial Networks with Contrastive Regularizers", <i>International Conference on Machine Learning (ICML)</i>, Online, 2020, (Acceptance rate: 21.8%)</p> <p>K. Thekumparampil, P. Jain, P. Netrapalli, S. Oh, "Efficient Algorithms for Smooth Minimax Optimization", <i>Neural Information Processing Systems (NeurIPS)</i>, Vancouver, Canada, 2019, (Acceptance rate: 21.2%)</p> <p>K. Thekumparampil, A. Khetan, Z. Lin, S. Oh, "Robustness of conditional GANs to noisy labels", <i>Neural Information Processing Systems (NeurIPS)</i>, Montreal, Canada, 2018, Spotlight presentation, (Spotlight acceptance rate: 3.5%)</p> <p>S. Negahban, S. Oh, [†]K. Thekumparampil, J. Xu, "Learning from Comparisons and Choices", <i>Journal of Machine Learning Research</i>, 2018 Jan 1;19(1):1478-572</p> <p>S. Oh, [†]K. Thekumparampil, J. Xu, "Collaboratively learning preferences from ordinal data.", <i>Neural Information Processing Systems (NIPS)</i>, Montreal, Canada, 2015 (Acceptance rate: 21.9%)</p> <p>K. Thekumparampil, A. Thangaraj, R. Vaze, "Combinatorial resource allocation using submodularity of waterfilling", <i>IEEE Transactions on Wireless Communications</i> 15.1 (2016): 206-216.</p>
WORKSHOP PAPERS	<p>K. Thekumparampil, P. Jain, P. Netrapalli, S. Oh, "Optimal Single-loop Online Stochastic Frank-Wolfe method", <i>NeurIPS 2020 workshop on Optimization in ML</i>, Online, 2020 (to appear)</p> <p>K. Thekumparampil, A. Khetan, S. Oh, "Robust conditional GANs under missing or uncertain labels", <i>ICML 2019 workshop on Uncertainty & Robustness in Deep Learning</i>, Long Beach, USA, 2019 (arXiv:1906.03579)</p>
TECHNICAL REPORTS	<p>K. Thekumparampil, Chong Wang, Sewoong Oh, Li-Jia Li, "Attention-based Graph Neural Network for Semi-supervised Learning", <i>arXiv preprint</i>, arXiv:11803.03735</p>

TALKS

2020/12/10: “Projection Efficient Subgradient Method and Optimal Nonsmooth Frank-Wolfe Method”, Spotlight presentation at *NeurIPS 2020 conference*, Online
2020/11/20: “Optimal Stochastic Nonsmooth Frank-Wolfe Method”, *ML Retreat*, CSE, UW, Seattle, WA
2020/10/30: “Projection Efficient Subgradient Method and Optimal Nonsmooth Frank-Wolfe Method”, *Opt-ML Seminar*, CSE, UW, Seattle, WA
2020/01/05: “Efficient algorithms for smooth minimax optimization”, *Graduation Day talk, 2020 Information Theory and Applications Workshop*, San Diego, CA
2019/09/05: “Acceleration by coupling Mirror Descent and Gradient Descent, through the lens of potential functions”, *Summer Optimization Reading group*, CSE, UW, Seattle, WA
2019/05/14: “Robust conditional GANs under missing or uncertain labels”, *ICML 2019 workshop on Uncertainty & Robustness in Deep Learning*, Long Beach, CA
2019/02/06: “Robust training of Conditional GANs with noisy labeled data”, Machine Learning: Theory and Algorithms track, *CSL Student Conference 2019*, UIUC, Urbana, IL
2018/12/04: “Robust training of Conditional GANs with noisy labeled data”, Spotlight presentation at *NeurIPS 2018 conference*, Montréal, Canada

PROFESSIONAL SERVICES AND ACTIVITIES

- ICML 2020 conference Area Chair
- Reviewer for:
 - Conferences: NeurIPS (2019-20), ICML (2019), AISTATS (2019-21), ALT (2021)
 - Journals: IEEE TNNLS 2020, IEEE TPAMI 2019, IEEE Transactions on Wireless Communications 2016, IEEE Journal on Selected Areas in Communications 2015,
- Research mentor for Harshay Shah (UIUC BS CS '19, now at Microsoft Research, India)
- Teaching Assistant for Introduction to Computing (ECE 120, Spring 2016, UIUC)

SKILLS

Languages: Python (Tensorflow, Pytorch, scipy), C++, MATLAB, Java, C, R
Operating systems and other tools: Windows and Unix, git, svn, gcc, gdb, Google Cloud, AWS

HONORS AND SCHOLASTIC ACHIEVEMENTS

- Awarded *CBSE Merit Scholarship* for securing *Kerala State 3rd Rank* and *All India Rank 407* in All-India Engineering Entrance Examination (AIEEE) 2010
- Invited to give the very selective Graduation Day talk at the 2020 Information Theory and Applications Workshop, San Diego, California, USA.
- Received *Scholarship* from *Gesellschaft von Freunden und Förderern der TU Dresden e.V* for conducting research at Technische Universität Dresden, Germany (2013)
- Spotlight presentation (NeurIPS '18, '20), Best talk award (CSL Student Conference 2019, UIUC)
- Travel grant award: NeurIPS 2019, 2018, 2015