Nhat Pham Minh Ho

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<tr><td>CONTACT
INFORMATION</td><td>Department of Statistics and Data Sciences
University of Texas, Austin
GDC 7.504, 2317 Speedway D9800
Austin, Texas 78712-1823, USA</td><td>Phone: (734) 355-9907
E-mail: minhnhat@utexas.edu
https://nhatptnk8912.github.io/</td></tr>
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University of Texas, Austin, TX, USA — 2020-present
- Assistant Professor (tenure-track), Department of Statistics and Data Sciences
- Core Member, Machine Learning Laboratory

University of California, Berkeley, CA, USA — 2017-2020
- Post-doctoral Scholar in EECS
- Mentors: Professors Michael I. Jordan and Martin J. Wainwright

EDUCATION

University of Michigan, Ann Arbor, Michigan USA

Ph.D in Statistics, 2012 - 2017
- Advisors: Professors Long Nguyen and Ya'acov Ritov
- Thesis: Parameter estimation and multilevel clustering with mixture and hierarchical models

Master of Arts in Statistics, 2012-2013

Ho Chi Minh City University of Science, Ho Chi Minh City, Vietnam

B.S in Mathematics and Computer Science, 2007-2011
- Major: Partial Differential Equations (PDE) and Numerical Analysis
- Rank: 3/3200 - *Summa Cum Laude*

RESEARCH INTERESTS

A central theme of my research focuses on four principles of statistics and data science: heterogeneity, interpretability, stability, and scalability:

- Heterogeneity (Bayesian nonparametrics, hierarchical and mixture models)
- Interpretability (model misspecification, deep generative model, convolutional neural networks)
- Stability (robust statistics, (non)-convex optimization in statistical settings)
- Scalability (statistical and computational optimal transport, approximate Bayesian inference, distributed computing)

PAPERS TO BE SUBMITTED (Preprints, complete manuscripts)

(Authors of papers marked with * are equally contributed. Authors of papers marked with ** are in alphabetical order)

Nhat Ho**, Stephen Walker**. On general integral theorem and the optimality of Fourier's. *Arxiv preprint, To be submitted.*

Nhat Ho**, Stephen Walker**. Statistical analysis from the Fourier integral theorem. *Arxiv preprint, To be submitted.*

Aritra Guha, **Nhat Ho**, Chiao-Yu Yang, Long Nguyen, Michael I. Jordan. Bayesian sieves for unbounded parameter space andexcess mass contraction under misspecification. *To be submitted.*

Chiao-Yu Yang, Lihua Lei, **Nhat Ho**, Will Fithian. The bag-of-null-statistics procedure: An adaptive framework for selecting a better test statistics. *To be submitted.*

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Dat Do*, **Nhat Ho***, XuanLong Nguyen. Statistical efficiency of parameter estimation in generalized contaminated models. *To be submitted.*

Wenlong Mou, **Nhat Ho**, Martin J. Wainwright, Peter Bartlett, Michael I. Jordan. A Poisson equation perspective on Berstein-Von Mises theorem. *To be submitted.*

Tudor Manole, **Nhat Ho**. Uniform convergence rates of parameter estimation under Gaussian identifiable mixtures. *To be submitted.*

Tudor Manole*, **Nhat Ho***. Revisiting convergence rate of penalized MLE on finite mixture models. *To be submitted.*

Tudor Manole, Cody Mazza-Anthony, **Nhat Ho**, Abbas Khalili. On efficient model selection for mixture of regressions. *To be submitted.*

Nhat Ho**, Stephen Walker**. A new perspecvie on Bayesian uncertainty quantification. *To be submitted.*

<table>
<tr><td>JOURNAL
SUBMISSIONS</td><td>

Nhat Ho**, Stephen Walker**. Multivariate smoothing via the Fourier integral theorem and Fourier kernel. *Under review, Journal of Machine Learning Research.*

Jiacheng Zhu, Jeongyeol Kwon, **Nhat Ho**, Constantine Caramanis. On the computational and statistical complexity of over-parameterized matrix sensing. *Under review, Journal of Machine Learning Research.*

Mingzhang Yin, **Nhat Ho**, Bowei Yan, Mingyuan Zhou. Probabilistic best subset selection by gradient-based optimization. *Under review, Journal of the American Statistical Association.*

Nhat Ho, Chiao-Yu Yang, Michael I. Jordan. Convergence rates for Gaussian mixtures of experts. *Under review, Journal of Machine Learning Research.*

Chiao-Yu Yang, Eric Xia, **Nhat Ho**, Michael I. Jordan. Posterior distribution for the number of clusters in Dirichlet process mixture models. *Under review, Journal of Machine Learning Research.*

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<tr><td>CONFERENCE
SUBMISSIONS</td><td>

Khai Nguyen, Dinh Quoc, **Nhat Ho**, Tung Pham, Hung Bui, Dinh Phung, Trung Le. BoMb-OT: On batch of mini-batches optimal transport. *Under review, NeurIPS.*

Khang Le*, Huy Nguyen*, Quang Nguyen, **Nhat Ho**, Tung Pham, Hung Bui. On robust optimal transport: computational complexity, low-rank approximation, and barycenter computation. *Under review, NeurIPS.*

Son Nguyen, Khai Nguyen, **Nhat Ho**, Tung Pham, Hung Bui. Improving Bayesian inference in deep neural networks with variational structured dropout. *Under review, NeurIPS.*

Dang Nguyen, Khai Nguyen, **Nhat Ho**, Dinh Phung, Hung Bui. On efficient model fusion of neural networks. *Under review, NeurIPS.*

Huy Nguyen, Dat Do, **Nhat Ho**, Dinh Phung, Hung Bui, Trung Le. A geometric perspective on label shift. *Under review, NeurIPS.*

Trung Nguyen, Hieu Pham, Tam Le, **Nhat Ho**, Tung Pham, Son Hua. Point-set distances for learning representations of 3D point clouds. *Under review, ICCV.*

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Tam Le*, Viet Huynh*, **Nhat Ho***, Makoto Yamada, Dinh Phung. On scalable variant of Wasserstein barycenter. *Under review, UAI.*

Dat Do, Tue Le, **Nhat Ho**, Dinh Phung, Hung Bui, Trung Le. On label shift for multi-source domain adaptation. *To be submitted.*

Huy Nguyen, Tuan Nguyen, **Nhat Ho**, Dinh Phung, Hung Bui, Trung Le. A weighted loss function for open-and partial-set domain adaptation. *To be submitted.*

Khai Nguyen, Dat Do, Dang Nguyen, **Nhat Ho**. Relaxed projected Wasserstein distance and its applications. *To be submitted.*

Khai Nguyen, Dat Do, Dang Nguyen, **Nhat Ho**. Deep multilevel clustering via Wasserstein distance. *To be submitted.*

Huy Nguyen*, Khang Le*, **Nhat Ho**, Tung Pham, Hung Bui. On the computational complexity of partial optimal transport. *To be submitted.*

Huy Nguyen*, Khang Le*, **Nhat Ho**, Tung Pham, Hung Bui. On the geometric structures of entropic Gromov-Wasserstein. *To be submitted.*

Jincheng Cao*, Khai Nguyen*, Tudor Manole, **Nhat Ho**. On penalized Wasserstein barycenter and its applications to multilevel clustering. *To be submitted.*

Xizewen Han*, Khai Nguyen*, **Nhat Ho**. A new perspective on robust clustering via optimal transport. *To be submitted.*

Tongzheng Ren, Fuheng Cui, **Nhat Ho**. Computational and statistical complexity of adaptive gradient methods. *To be submitted.*

JOURNAL PUBLICATIONS

Nhat Ho*, Raaz Dwivedi*, Koulik Khamaru*, Martin J. Wainwright, Michael I. Jordan, Bin Yu. Instability, computational efficiency, and statistical accuracy. *Under revision.*

Wenlong Mou*, **Nhat Ho***, Martin J. Wainwright, Peter Bartlett, Michael I. Jordan. A diffusion process perspective on posterior contraction rates for parameters. *arXiv preprint arXiv: 1909.00966, Under revision.*

Tan Nguyen*, **Nhat Ho***, Ankit Patel, Anima Anankumar, Michael I. Jordan, Richard Baraniuk. A Bayesian perspective of convolutional neural networks through a deconvolutional generative model. *Under revision.*

Tianyi Lin, **Nhat Ho**, Michael I. Jordan. On the acceleration of the Sinkhorn and Greenkhorn algorithms for optimal transport. *Under revision.*

Wenlong Mou, **Nhat Ho**, Martin J. Wainwright, Peter Bartlett, Michael I. Jordan. Sampling for Bayesian mixture models: MCMC with polynomial-time mixing. *Under revision.*

Nhat Ho*, Tianyi Lin*, Michael I. Jordan. On structured filtering-clustering: global error bound and optimal first-order algorithms. *Under revision.*

Tianyi Lin, **Nhat Ho**, Marco Cuturi, Michael I. Jordan. On the complexity of approximating multi-marginal optimal transport. *Under revision.*

Avi Feller**, Evan Greif**, **Nhat Ho****, Luke W. Miratrix**, Natesh S. Pillai**. Weakly separation

in mixture models and implications for principal stratification. *Under revision.*

Aritra Guha, **Nhat Ho**, XuanLong Nguyen. On posterior contraction of parameters and interpretability in Bayesian mixture modeling. *To appear, Bernoulli.*

Viet Huynh*, **Nhat Ho***, Nhan Dam, XuanLong Nguyen, Mikhail Yurochkin, Hung Bui, Dinh Phung. On efficient multilevel clustering via Wasserstein distances. *To appear, Journal of Machine Learning Research.*

Raaz Dwivedi*, **Nhat Ho***, Koulik Khamaru*, Martin J. Wainwright, Michael I. Jordan, Bin Yu. Singularity, misspecification, and the convergence rate of EM. *Annals of Statistics*, 48(6), 3161-3182, 2020.

Nhat Ho, XuanLong Nguyen, Ya'acov Ritov. Robust estimation of mixing measures in finite mixture models. *Bernoulli, 26(2), 828-857, 2020.*

Nhat Ho and XuanLong Nguyen. Singularity structures and impacts on parameter estimation in finite mixtures of distributions. *SIAM Journal on Mathematics of Data Science, 1(4), 730-758, 2019.*

Nhat Ho and XuanLong Nguyen. Convergence rates of parameter estimation for some weakly identifiable finite mixtures. *Annals of Statistics*, 44(6), 2726-2755, 2016.

Nhat Ho and XuanLong Nguyen. On strong identifiability and convergence rates of parameter estimation in finite mixtures. *Electronic Journal of Statistics* , 10(1), 271-307, 2016.

CONFERENCE PUBLICATIONS

Trung Le, Tuan Nguyen, **Nhat Ho**, Hung Bui, Dinh Phung. LAMDA: Label matching deep domain adaptation. *ICML, 2021.*

Jeong Y. Kwon, **Nhat Ho**, Constantine Caramanis. On the minimax optimality of the EM algorithm for learning two-component mixed linear regression. *AISTATS, 2021.*

Tam Le*, **Nhat Ho***, Makoto Yamada. Flow-based alignment approaches for probability measures in different spaces. *AISTATS, 2021.*

Khai Nguyen, **Nhat Ho**, Tung Pham, Hung Bui. Distributional sliced-Wasserstein and applications to generative modeling. *ICLR, 2021 (Spotlight).*

Khai Nguyen, Son Nguyen, **Nhat Ho**, Tung Pham, Hung Bui. Improving relational regularized autoencoders with spherical sliced fused Gromov-Wasserstein. *ICLR, 2021.*

Tianyi Lin*, Chenyou Fan*, **Nhat Ho**, Marco Cuturi, Michael I. Jordan. Projection robust Wasserstein distance and Riemannian optimization. *Advances in NeurIPS, 2020 (Spotlight).*

Tianyi Lin, **Nhat Ho**, Xi Chen, Marco Cuturi, Michael I. Jordan. Revisiting fixed support Wasserstein barycenter: Computational hardness and efficient algorithms. *Advances in NeurIPS, 2020.*

Khiem Pham*, Khang Le*, **Nhat Ho**, Tung Pham, Hung Bui. On unbalanced optimal transport: an analysis of Sinkhorn algorithm. *Proceedings of the ICML, 2020.*

Raaz Dwivedi*, **Nhat Ho***, Koulik Khamaru*, Martin J. Wainwright, Michael I. Jordan, Bin Yu. Sharp analysis of Expectation-Maximization for weakly identifiable models. *AISTATS, 2020.*

Wenshuo Guo, **Nhat Ho**, Michael I. Jordan. Fast algorithms for computational optimal transport

and Wasserstein barycenters. *AISTATS, 2020.*

Tianyi Lin*, **Nhat Ho***, Michael I. Jordan. On efficient optimal transport: an analysis of greedy and accelerated mirror descent algorithms. *Proceedings of the ICML, 2019.*

Nhat Ho*, Viet Huynh*, Dinh Phung, Michael I. Jordan. A probabilistic approach to multilevel clustering via composite transportation distance. *AISTATS, 2019.*

Raaz Dwivedi*, **Nhat Ho***, Koulik Khamaru*, Martin J. Wainwright, Michael I. Jordan. Theoretical guarantees for EM under misspecified Gaussian mixture models. *Advances in NeurIPS, 2018.*

Nhat Ho, XuanLong Nguyen, Mikhail Yurochkin, Hung Bui, Viet Huynh, Dinh Phung. Multi-level clustering via Wasserstein means. *Proceedings of the ICML, 2017.*

REFEREED WORKSHOP PAPERS	Yujia Huang*, Sihua Dai*, Tan Nguyen*, **Nhat Ho***, Ankit Patel, Anima Anankumar, Michael Jordan, Richard Baraniuk. Neural rendering model: rethinking neural networks from the joint generation and prediction perspective. *Conference on Mathematical Theory of Deep Neural Networks, 2019.*

Nhat Ho*, Tan Nguyen*, Ankit Patel, Anima Anankumar, Michael Jordan, Richard Baraniuk. Neural rendering model: Joint generation and prediction for semi-supervised learning. *NIPS workshop on Integration of Deep Learning Theories, 2018.*

Nhat Ho*, Tan Nguyen*, Ankit Patel, Anima Anankumar, Michael Jordan, Richard Baraniuk. Latent-dependent deep rendering model. *ICML workshop on Theoretical Foundations and Applications of Deep Generative Models, 2018.*

TEACHING	Fall 2021, SDS 384 Statistical Machine Learning Optimization

Spring 2021, SDS 323 Statistical Learning and Inference

WORKSHOP ORGANIZATION	*Integration of Deep Learning Theories* at NeurIPS 2018, Palais des Congrès de Montréal, Canada.

Co-organize with Professors Richard Baraniuk, Stephane Mallat, Anima Anandkumar, and Ankit Patel

INVITED SEMINAR PRESENTATIONS	Instability, statistical accuracy, and computational efficiency. *BLISS Seminar, Department of Electrical Engineering and Computer Sciences, April, 2021, UC Berkeley.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Department of Decision Sciences at Bocconi University, Italy, November 2020.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Young Data Science Researcher Seminar, ETH Zurich, July 2020.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Biostatistics, March 2020, University of California, Berkeley.* (Invited talk - Canceled)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Statistics and Data Science, February 2020, CMU.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Statistics, February 2020, University of California, Los Angeles.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Statistics and Data Science, February 2020, Cornell University.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Statistics, February 2020, Rutgers University.* (Invited talk - Canceled)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Statistics, February 2020, Purdue University.* (Invited talk - Canceled)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Data Science, February 2020, University of California, San Diego.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Data Science, February 2020, John Hopskins University.* (Invited talk - Canceled)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Statistics, February 2020, University of Wisconsin, Madison.* (Invited talk - Canceled)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Statistics, March 2020, University of Toronto.* (Invited talk - Canceled)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Statistics, February 2020, Duke University.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Statistics and Data Sciences, January 2020, University of Texas, Austin.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Statistics, January 2020, University of Illinois, Urbana-Champaign.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Booth School of Management, January 2020, University of Chicago.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Data Science and Operation Research, January 2020, University of Southern California.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Statistics, January 2020, North Carolina State University.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Statistics, January 2020, University of Minnesota, Twin Cities.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Krannert School of Management, January 2020, Purdue University.* (Invited talk)

Statistical and computational perspectives on latent variable models. *Statistics Seminar, Department of Statistics, January 2020, Pennsylvania State University.* (Invited talk)

On multi-layer latent variable models: computational and statistical perspective. *Mathematics of Data and Decisions Seminar, Department of Mathematics, December, 2019, UC Davis.* (Invited talk)

On optimal transport in machine learning and data science: computational, modeling, and theoret-

ical perspective. *Research Seminar, VinAI Research, October, 2019, Ha Noi, Viet Nam.* (Invited talk)

Statistical and computational perspective of mixture and hierarchical models. *BLISS Seminar, Department of Electrical Engineering and Computer Sciences, October, 2019, UC Berkeley.* (Invited talk-Canceled)

Singularity structures of mixture models: Statistical and computational perspective. *Department Seminar, Department of Electrical Engineering and Computer Sciences, Rice, November, 2018, Houston, Texas.* (Invited talk)

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<td>CONFERENCE,
WORKSHOP
PRESENTATIONS</td>
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On optimal transport in machine learning and data science: computational, modeling, and theoretical perspective. *INFORMS, 2021.* (Invited talk)

Statistical efficiency of parameter estimation in generalized contaminated models. *International Indian Statistical Association (IISA) Conference, 2021.* (Invited talk)

Statistical efficiency of parameter estimation in generalized contaminated models. *International Chinese Statistical Association (ICSA), Xi'an University, Xi'an, China, 2021.* (Invited talk)

Statistical efficiency of parameter estimation in generalized contaminated models. *International Conference on Econometrics and Statistics (EcoSta), Yonsei University, Seoul, South Korea, 2021.* (Invited talk)

Convergence rates for Gaussian mixtures of experts. *International Indian Statistical Association (IISA) Conference, University of Illinois at Chicago, 2020.* (Invited talk - Canceled)

On efficient optimal transport: an analysis of greedy and accelerated mirror descent algorithms. *International Conference on Machine Learning (ICML), Long Beach, CA, 2019.* (Oral presentation)

Singularity structures of mixture models: Statistical and computational perspective. *Joint Statistical Meetings (JSM), August, 2019, Denver, Colorado.* (Invited talk)

Singularity structures of parameter estimation in finite mixtures of distributions. *Joint Stanford/Berkeley Applied Math Event, November 2018, University of California, Berkeley.* (Invited talk)

Singularity structure of parameter space and posterior contraction in finite mixture models. *Joint Statistical Meetings (JSM), August, 2017, Baltimore, Maryland.* (Invited talk)

Singularity structures and parameter estimation behavior in finite mixtures of distributions. *Nonparametric Statistics Workshop: Integration of Theory, Methods, and Applications, October, 2016, Ann Arbor, Michigan.* (Poster)

Singularity structures and impacts on parameter estimation in finite mixtures of distributions. *Shannon Centennial Symposium, September, 2016, Ann Arbor, Michigan.* (Poster)

Singularity structures and parameter estimation behavior in finite mixtures of distributions. *Joint Statistical Meetings (JSM), August, 2016, Chicago, Illinois.* (Contributed talk)

Singularity structures and parameter estimation behavior in finite mixtures of distributions. *Conference on Statistical Learning and Data Science, June, 2016, University of North Carolina at Chapel Hill.* (Poster)

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Singularity structures and parameter estimation behavior in finite mixtures of distributions. *Statistical Machine Learning Student Workshop, June, 2016, University of Michigan, Ann Arbor.* (Contributed talk)

Singularity structures and parameter estimation in mixtures of skew normal distributions. *Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS), March, 2016, Ann Arbor, MI.* (Poster)

Weak Identifiability and convergence rates of parameter estimation in over-fitted Gaussian mixture models. *Student Seminar, January, 2016, Department of Statistics, University of Michigan, Ann Arbor.* (Invited talk)

Intrinsic difficulties for the inference of mixing measures in finite mixtures of univariate skew normal distributions. *From Industrial Statistics to Data Science, October, 2015, Ann Arbor, Michigan.* (Poster)

Posterior concentration of mixing parameters in some weakly identifiable finite mixture models. *10th Conference on Bayesian Nonparametrics, June, 2015, Raleigh, North Carolina.* (Poster)

Weak identifiability and optimal rate of convergence of mixing measures in over-fitted Gaussian mixture model. *NSF Conference - Statistics for Complex Systems, June, 2015, Madison, Wisconsin.* (Poster)

Weak identifiability and optimal rate of convergence of mixing measures in over-fitted Gaussian mixture model. *Statistical Machine Learning Student Workshop, June, 2015, University of Michigan, Ann Arbor.* (Contributed talk)

Optimal convergence rate of parameter estimation in over-fitted finite Gaussian mixture model. *Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS), 2015, Ann Arbor, MI.* (Poster)

Identifiability and convergence rate of parameter estimators in exact-fitted finite mixture models. *Statistical Machine Learning Student Workshop, June, 2014, University of Michigan, Ann Arbor.* (Contributed talk)

GRADUATE SUPERVISION & COMMITTEE MEMBER

Phd supervision

- Fanqi Yan, Phd Student in Department of Computer Science
- Khang Nguyen, Incoming Phd Student in Department of Electrical and Computer Engineering (Co-mentored with Constantine Caramanis)
- Khai Nguyen, Incoming Phd Student in Department of Statistics and Data Sciences
- Jincheng Cao, Department of Operations Research and Industrial Engineering
- Xizewen Han, Phd Student in Department of Statistics and Data Sciences (Co-mentored with Mingyuan Zhou)
- Fuheng Cui, Phd Student in Department of Statistics and Data Sciences

Phd committee member

- Jiacheng Zhuo, Phd Student in the Department of Computer Science
- Xizewen Han, Phd Student in the Department of Statistics and Data Sciences
- Korawat Tanwisuth, Phd Student in Department of Statistics and Data Sciences

	Journal reviewing:

Journal reviewing:
- Annals of Statistics (5 papers)
- Journal of the American Statistical Association (1 paper)
- Bernoulli (1 paper)
- Electronic Journal of Statistics (2 papers)
- Journal of Machine Learning Research (8 papers)
- SIAM Journal on Mathematics of Data Science (1 paper)
- Statistical Science (1 paper)
- Mathematical Statistics and Learning (1 paper)
- Mathematical Programming (1 paper)
- Annals of Applied Probability (1 paper)
- Mathematics of Operations Research (1 paper)
- IEEE Transactions on Information Theory (1 paper)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (1 paper)
- IEEE Transactions on Signal Processing (1 paper)
- Journal of Combinatorial Optimization (1 paper)
- IEEE Letters to Control System Society (1 paper)
- Pattern Recognition (1 paper)
- Entropy (2 papers)
- PLOS ONE (1 paper)
- Stat (1 paper)
- Algorithms (1 paper)

Conference reviewing/ Program Committee:
- International Conference on Machine Learning (ICML), 2015, 2017, 2018, 2019, 2021
- Neural Information Processing Systems (NIPS), 2015, 2017, 2020, 2021
- International Conference on Learning Representations (ICLR), 2021, 2022
- International Conference on Artificial Intelligence and Statistics (AISTATS), 2021
- Conference on Learning Theory (COLT), 2021
- Conference on Uncertainty in Artificial Intelligence (UAI), 2021

Professional Committees Member:
- ASA SLDS Student Paper Award Committee, 2021

Other services:
- Nonparametric Statistics Workshop: Integration of Theory, Methods, and Applications, October 2016, Ann Arbor, Michigan, *Student Assistant*
- Extreme Value Analsyis (EVA) conference, June 2015, Ann Arbor, Michigan, *Student Assistant*

MEMBERSHIP   American Statistical Association

International Society for Bayesian Analysis