

Aditya Krishna Menon

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Experience

- Senior Staff Research Scientist** *Google* May 2025 – Present
- Managing a team of 3 research scientists working on improved training and inference efficiency of large (language) models
- Staff Research Scientist** *Google* Nov 2020 – Apr 2025
- Managing a team of 8 research scientists working on large-scale neural retrieval and re-ranking; improved training and inference efficiency of large (language) models
- Senior Research Scientist** *Google* Sep 2018 – Oct 2020
- Worked on new techniques for large-scale neural retrieval and re-ranking; anomaly detection
- Honorary Senior Lecturer** *Australian National University* Jul 2018 – Aug 2021
- Fellow** *Australian National University* Jan 2018 – Jul 2018
- Analysing different means of imposing “fairness” constraints on classifiers, and their resulting tradeoffs
 - Designing algorithms to predict popularity of content on social media, e.g., videos on YouTube
 - Performing academic duties, including co-supervision of two PhD students
- Senior Research Scientist** *CSIRO Data61* Jul 2016 – Dec 2017
- Published research on theoretical & applied machine learning topics, e.g., Bregman divergences, point processes, recommender systems
 - Led machine learning for industrial projects on transport congestion management and border security
 - Performed academic duties at the Australian National University, including co-supervision of two PhD students
- Researcher** *National ICT Australia (NICTA)* May 2013 – Jun 2016
- Published research on theoretical & applied machine learning topics, e.g., bipartite ranking, label noise, recommender systems
 - Involved in machine learning for industrial projects on solar energy forecasting and urban mobility
 - Performed academic duties at the Australian National University, including co-supervision of two PhD students, and lecturing
- Data Scientist Intern** *LinkedIn* Jun 2012 – Sep 2012
- Worked on end-to-end system for using machine learning to automate search log analysis
- Research Intern** *Microsoft Research New England* Jun 2011 – Sep 2011
- Worked on using machine learning to automatically infer user’s intent for repetitive text processing tasks
- Research Intern** *Yahoo! Labs Bangalore* Jun 2010 – Sep 2010
- Worked on estimating the clickthrough rate of ads on webpages using collaborative filtering

Education

- PhD in Computer Science** *University of California, San Diego* Mar 2013
- Thesis title:* Latent feature models for dyadic prediction
- Supervisor:* Charles Elkan
- BSc (Advanced) Honours in Computer Science** *The University of Sydney* May 2007
- First Class Honours, University Medal, & Allan Bromley Prize for best thesis in Computer Science
- Thesis title:* Random projections and applications to dimensionality reduction
- Supervisor:* Sanjay Chawla

Awards

- Outstanding Paper Honorable Mention** *International Conference on Learning Representations* 2025
- Best Technical Contribution Award** *Conference on Fairness, Accountability, and Transparency* 2018
- Research Excellence Award** *Intelligent Transport Systems Australia* 2014 – 2015
- Awarded to Advanced Data Analytics in Transport team
- Student Travel Award** *International Conference on Data Mining* 2010
- Jacobs Fellowship** *University of California, San Diego* 2007 – 2009
- University Medal** *The University of Sydney* 2007
- Allan Bromley Prize** *The University of Sydney* 2007
- Continuing Undergraduate Scholarship** *The University of Sydney* 2004 – 2006
- Talented Student Program** *The University of Sydney* 2003 – 2005

Research Interests

Efficient inference for large (language) models (e.g., knowledge distillation, model cascading)
Retrieval and re-ranking (e.g., negative mining, loss function design)
Foundations of (weakly-)supervised learning (e.g. class-probability estimation, bipartite ranking)

Selected Academic Research Publications

Post-hoc estimators for learning to defer to an expert. Harikrishna Narasimhan, Wittawat Jitkrittum, Aditya Krishna Menon, Ankit Singh Rawat, and Sanjiv Kumar. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2022.

Identifies a subtle issue wherein existing losses for learning to defer to an expert can underfit the training data. Proposes two alternate approaches which involve post-hoc threshold adjustment, or minimisation of a suitable asymmetric margin loss.

A statistical perspective on distillation. Aditya Krishna Menon, Ankit Singh Rawat, Sashank J. Reddi, Seungyeon Kim, and Sanjiv Kumar. In *International Conference on Machine Learning (ICML)*, 2021.

Provides an explanation for why knowledge distillation can improve classifier performance, based on the classic bias-variance decomposition: distillation increases bias but reduces variance (since the teacher model can provide smooth, if sometimes incorrect, supervision).

Long-tail learning via logit adjustment. Aditya Krishna Menon, Sadeep Jayasumana, Ankit Singh Rawat, Himanshu Jain, Andreas Veit, and Sanjiv Kumar. In *International Conference on Learning Representations (ICLR)*, 2021.

Resurrects a classic threshold-adjustment approach to learning with label imbalance, and establishes an analogous approach to directly enforce this in the softmax cross-entropy. This generalises several existing proposals in the literature, and performs well empirically.

Fairness risk measures. Robert C. Williamson and Aditya Krishna Menon. In *International Conference on Machine Learning (ICML)*, 2019.

A new approach to fair classification, by connecting the problem to the literature on risk measures from finance. This generalises some existing notions of fairness, and also yields a new convex objective based on the conditional value at risk (CVaR).

Linking losses for density ratio and class-probability estimation. Aditya Krishna Menon and Cheng Soon Ong. In *International Conference on Machine Learning (ICML)*, 2016.

A formal reduction between the density ratio and class-probability estimation problems. This is done via a novel identity for Bregman divergences, and justifies using methods like logistic regression to estimate covariate shift levels between train and test sets.

Selected Industrial Research Projects

Efficient large (language) models *Google*

Nov 2020 - present

- Managed a team of research scientists working on improved training and inference efficiency of large (language) models
- Developed and published new techniques on topics including knowledge distillation, model cascading, and efficient decoding
- Launched solutions with partners in Gemini (née Bard), Search Generative Experience

Deep retrieval and ranking *Google*

Sep 2018 - present

- Developed and oversaw research on improving large-scale neural retrieval and re-ranking
- Developed and published new techniques on negative mining, knowledge distillation, and loss function design
- Launched solutions with partners in Shopping, Ads, YouTube

Inverse problems for road traffic *NICTA and Transport for NSW*

Aug 2013 - Dec 2014

- Worked with a diverse team including transportation scientists and research engineers
- Developed and implemented learning algorithms to solve an inverse problem central to transport science
- Work culminated in team receiving 2014 & 2015 Intelligent Transport Systems Research award, and publication in top transport journal

Teaching Experience

Guest Lecturer *Columbia University*

Dec 2024

COMS 4774 Unsupervised Learning

Guest Lecturer *National University of Singapore*

Oct 2023

DSA4262 Sense-Making Case Analysis: Health and Medicine

Guest Lecturer *University of Sydney*

Oct 2021

COMP5328: Advanced Machine Learning

Guest Lecturer *Australian National University*

May 2018

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| COMP4670: Advanced Topics in Statistical Machine Learning | |
| Lecturer <i>Australian National University</i> | Jul – Aug 2013 – 2016 |
| COMP2610/COMP6261: Information Theory | |
| Teaching assistant <i>University of California, San Diego</i> | Jan – Mar 2009 – 2012 |
| COMP101: Algorithms; COMP250A: Probabilistic Reasoning and Decision-Making; COMP250B: Learning | |

Programming Languages

Proficient: python + scientific toolkit (numpy, scipy, sklearn), MATLAB
Familiar: C, C++, Java, TensorFlow, JAX

Professional Service

Reviewer for ICML 2012–2019; NIPS 2011, 2015–2019; AAAI 2012, 2015–2019; AISTATS 2016, 2018; IJCAI 2016, 2018; KDD 2011–2012; CIKM 2013; ACML 2014–2015; ACL 2024; COLM 2024–2025

Area Chair for IJCAI 2017, AAAI 2019, ICML 2021–2025, NeurIPS 2020–2024, ICLR 2020–2025, ACML 2020–2022

Senior Area Chair for NeurIPS 2025

Action Editor for Transactions on Machine Learning Research

Reviewer for Journal of Machine Learning Research, Machine Learning, Data Mining and Knowledge Discovery, Biometrika, Transactions on Pattern Analysis and Machine Intelligence

Recognised as Outstanding Reviewer for ICML 2018, 2019 and NeurIPS 2018

Recognised as Outstanding Senior Program Committee member for AAAI 2019

PhD Thesis Co-Supervisor

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| Umanga Bista <i>Australian National University</i> | 2018 – 2022 |
| Primary supervisor: Lexing Xie | |
| Dawei Chen <i>Australian National University</i> | 2016 – 2019 |
| Primary supervisor: Cheng Soon Ong | |
| Suvash Sedhain <i>Australian National University</i> | 2013 – 2016 |
| Primary supervisor: Scott Sanner | |
| Brendan van Rooyen <i>Australian National University</i> | 2013 – 2015 |
| Primary supervisor: Robert C. Williamson | |

Intern (Co-)Supervisor

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| Licong Lin <i>UC Berkeley</i> | Spring 2025 |
| Student Researcher at Google Research NYC | |
| Sachin Goyal <i>USC</i> | Summer 2024 |
| Student Researcher at Google Research NYC | |
| Hrayr Harutyunyan <i>USC</i> | Summer 2022 |
| Intern at Google Research NYC | |
| Zitong Yang <i>UC Berkeley</i> | Summer 2022 |
| Intern at Google Research NYC | |
| Jingzhao Zhang <i>MIT</i> | Summer 2021 |
| Intern at Google Research NYC | |
| Melanie Weber <i>Harvard</i> | Summer 2020 |
| Intern at Google Research NYC | |

Invited Talks

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| SUTD <i>The power of many: model orchestration for efficient LLMs</i> | 2025 |
| A*STAR CFAR <i>The power of many: model orchestration for efficient LLMs</i> | 2025 |
| Microsoft Research India <i>A tale of two encoders for neural retrieval</i> | 2024 |
| ACML WSRL Workshop <i>Training deep networks under label noise: new views on old tricks</i> | 2020 |
| RIKEN AIP <i>The hidden talents of logistic regression: from noisy labels to point processes</i> | 2017 |
| ITS World Congress <i>Data analytics for transportation</i> | 2016 |
| UC San Diego <i>Learning from noisy binary labels: a tale of two approaches</i> | 2016 |
| Amazon <i>Learning from noisy binary labels: a tale of two approaches</i> | 2016 |
| HHMI Janelia Farms <i>Learning from noisy binary labels: a tale of two approaches</i> | 2016 |
| ID Analytics <i>Learning to make predictions in graphs</i> | 2012 |

Full List of Academic Research Publications

Faster cascades via speculative decoding. Harikrishna Narasimhan, Wittawat Jitkrittum, Ankit Singh Rawat, Seungyeon Kim, Neha Gupta, Aditya Krishna Menon, and Sanjiv Kumar. In International Conference on Learning Representations (ICLR), 2025.
Honorable Mention.

Better autoregressive regression with LLMs via regression-aware fine-tuning. Michal Lukasik, Zhao Meng, Harikrishna Narasimhan, Yin-Wen Chang, Aditya Krishna Menon, Felix Yu, and Sanjiv Kumar. In International Conference on Learning Representations (ICLR), 2025.

Regression-aware inference with LLMs. Michal Lukasik, Harikrishna Narasimhan, Aditya Krishna Menon, Felix Yu, and Sanjiv Kumar. In Empirical Methods in Natural Language Processing Findings (EMNLP Findings), 2024.

Unified single-model training achieving diverse scores for information retrieval. Seungyeon Kim, Ankit Singh Rawat, Manzil Zaheer, Wittawat Jitkrittum, Veeranjanyulu Sadhanala, Sadeep Jayasumana, Aditya Krishna Menon, Rob Fergus, and Sanjiv Kumar. In International Conference on Machine Learning (ICML), 2024.

Language model cascades: token-level uncertainty and beyond. Neha Gupta, Harikrishna Narasimhan, Wittawat Jitkrittum, Ankit Singh Rawat, Aditya Krishna Menon, and Sanjiv Kumar. In International Conference on Learning Representations (ICLR), 2024.

Learning to reject meets long-tail learning. Harikrishna Narasimhan, Aditya Krishna Menon, Wittawat Jitkrittum, Neha Gupta, and Sanjiv Kumar. In International Conference on Learning Representations (ICLR), 2024.

Plugin estimators for selective classification with out-of-distribution detection. Harikrishna Narasimhan, Aditya Krishna Menon, Wittawat Jitkrittum, and Sanjiv Kumar. In International Conference on Learning Representations (ICLR), 2024.

DistillSpec: improving speculative decoding via knowledge distillation. Yongchao Zhou, Kaifeng Lyu, Ankit Singh Rawat, Aditya Krishna Menon, Afshin Rostamizadeh, Sanjiv Kumar, Jean-François Kagy, and Rishabh Agarwal. In International Conference on Learning Representations (ICLR), 2024.

Think before you speak: training language models with pause tokens. Sachin Goyal, Ziwei Ji, Ankit Singh Rawat, Aditya Krishna Menon, Sanjiv Kumar, and Vaishnavh Nagarajan. In International Conference on Learning Representations (ICLR), 2024.

The importance of feature preprocessing for differentially private linear optimization. Ziteng Sun, Ananda Theertha Suresh, and Aditya Krishna Menon. In International Conference on Learning Representations (ICLR), 2024.

What do larger image classifiers memorise? Michal Lukasik, Vaishnavh Nagarajan, Ankit Singh Rawat, Aditya Krishna Menon, and Sanjiv Kumar. In Transactions of Machine Learning Research (TMLR), 2024.

When does confidence-based cascade deferral suffice? Wittawat Jitkrittum, Neha Gupta, Aditya Krishna Menon, Harikrishna Narasimhan, Ankit Singh Rawat, and Sanjiv Kumar. In Advances in Neural Information Processing Systems (NeurIPS), 2023.

On student-teacher deviations in distillation: does it pay to disobey? Vaishnavh Nagarajan, Aditya Krishna Menon, Srinadh Bhojanapalli, Hossein Mobahi, and Sanjiv Kumar. In Advances in Neural Information Processing Systems (NeurIPS), 2023.

ResMem: Learn what you can and memorize the rest. Zitong Yang, Michal Lukasik, Vaishnavh Nagarajan, Zonglin Li, Ankit Singh Rawat, Manzil Zaheer, Aditya Krishna Menon, and Sanjiv Kumar. In Advances in Neural Information Processing Systems (NeurIPS), 2023.

Robust distillation for worst-class performance: on the interplay between teacher and student objectives. Serena Wang, Harikrishna Narasimhan, Yichen Zhou, Sara Hooker, Michal Lukasik, and Aditya Krishna Menon. In Uncertainty in Artificial Intelligence (UAI), 2023.

Supervision complexity and its role in knowledge distillation. Hrayr Harutyunyan, Ankit Singh Rawat, Aditya Krishna Menon, Seungyeon Kim, and Sanjiv Kumar. In International Conference on Learning Representations (ICLR), 2023.

Post-hoc estimators for learning to defer to an expert. Harikrishna Narasimhan, Wittawat Jitkrittum, Aditya Krishna Menon, Ankit Singh Rawat, and Sanjiv Kumar. In Advances in Neural Information Processing Systems (NeurIPS), 2022.

Teacher’s pet: understanding and mitigating biases in distillation. Michal Lukasik, Srinadh Bhojanapalli, Aditya Krishna Menon, and Sanjiv Kumar. In Transactions of Machine Learning Research (TMLR), 2022.

Interval-censored Hawkes processes. Marian-Andrei Rizoiiu, Alexander Soen, Shidi Li, Pio Calderon, Leanne J. Dong, Aditya Krishna Menon, and Lexing Xie. In Journal of Machine Learning Research (JMLR), 2022.

In defense of dual-encoders for neural ranking. Aditya Krishna Menon, Sadeep Jayasumana, Ankit Singh Rawat, Seungyeon Kim, Sashank J. Reddi, and Sanjiv Kumar. In International Conference on Machine Learning (ICML), 2022.

Training over-parameterized models with non-decomposable objectives. Harikrishna Narasimhan and Aditya Krishna Menon. In Advances in Neural Information Processing Systems (NeurIPS), 2021.

Disentangling sampling and labeling bias for learning in large-output spaces. Ankit Singh Rawat, Aditya Krishna Menon, Wittawat Jitkrittum, Sadeep Jayasumana, Felix X. Yu, Sashank Reddi, and Sanjiv Kumar. In International Conference on Machine Learning (ICML), 2021.

A statistical perspective on distillation. Aditya Krishna Menon, Ankit Singh Rawat, Sashank J. Reddi, Seungyeon Kim, and Sanjiv Kumar. In International Conference on Machine Learning (ICML), 2021.

RankDistil: knowledge distillation for ranking. Sashank Reddi, Rama Kumar Pasumarthi, Aditya Krishna Menon, Ankit Singh Rawat, Felix Yu, Seungyeon Kim, Andreas Veit, and Sanjiv Kumar. In Artificial Intelligence and Statistics (AISTATS), 2021.

Coping with label shift via distributionally robust optimisation. Jingzhao Zhang, Aditya Krishna Menon, Andreas Veit, Srinadh Bhojanapalli, Sanjiv Kumar, and Suvrit Sra. In International Conference on Learning Representations (ICLR), 2021.

Overparameterisation and worst-case generalisation: friend or foe? Aditya Krishna Menon, Ankit Singh Rawat, and Sanjiv Kumar. In International Conference on Learning Representations (ICLR), 2021.

Long-tail learning via logit adjustment. Aditya Krishna Menon, Sadeep Jayasumana, Ankit Singh Rawat, Himanshu Jain, Andreas Veit, and Sanjiv Kumar. In International Conference on Learning Representations (ICLR), 2021.

Robust large-margin Learning in hyperbolic space. Melanie Weber, Manzil Zaheer, Ankit Singh Rawat, Aditya Krishna Menon, and Sanjiv Kumar. In Advances in Neural Information Processing Systems (NeurIPS), 2020.

Semantic label smoothing for sequence to sequence problems. Michal Lukasik, Himanshu Jain, Aditya Krishna Menon, Seungyeon Kim, Srinadh Bhojanapalli, Felix Yu and Sanjiv Kumar. In Empirical Methods in Natural Language Processing (EMNLP), 2020.

SupMMD: a sentence importance model for extractive summarization using maximum mean discrepancy. Umanga Bista, Alexander Patrick Mathews, Aditya Krishna Menon, and Lexing Xie. In Empirical Methods in Natural Language Processing Findings (EMNLP Findings), 2020.

Does label smoothing mitigate label noise? Michal Lukasik, Srinadh Bhojanapalli, Aditya Krishna Menon, and Sanjiv Kumar. In International Conference on Machine Learning (ICML), 2020.

Supervised learning: no loss no cry. Richard Nock and Aditya Krishna Menon. In International Conference on Machine Learning (ICML), 2020.

Federated learning with only positive labels. Felix X. Yu, Ankit Singh Rawat, Aditya Krishna Menon, and Sanjiv Kumar. In International Conference on Machine Learning (ICML), 2020.

Can gradient clipping mitigate label noise? Aditya Krishna Menon, Ankit Singh Rawat, Sashank J. Reddi, and Sanjiv Kumar. In International Conference on Learning Representations (ICLR), Addis Ababa 2020.

Noise-tolerant fair classification. Alexandre Louis Lamy, Ziyuan Zhong, Aditya Krishna Menon, and Nakul Verma. In Advances in Neural Information Processing Systems (NeurIPS), Vancouver, 2019.

Multilabel reductions: what is my loss optimising? Aditya Krishna Menon, Ankit Singh Rawat, Sashank J. Reddi, and Sanjiv Kumar. In Advances in Neural Information Processing Systems (NeurIPS), Vancouver, 2019.

Fairness risk measures. Robert C. Williamson and Aditya Krishna Menon. In International Conference on Machine Learning (ICML), Long Beach, 2019.

Complementary-label learning for arbitrary losses and models. Takashi Ishida, Gang Niu, Aditya Krishna Menon, and Masashi Sugiyama. In International Conference on Machine Learning (ICML), Long Beach, 2019.

Monge blunts Bayes: hardness results for adversarial training. Zac Cranko, Aditya Krishna Menon, Richard Nock, Cheng-Soon Ong, Zhan Shi, and Christian Walder. In International Conference on Machine Learning (ICML), Long Beach, 2019.

On the minimal supervision for training any binary classifier from only unlabeled data. Nan Lu, Gang Niu, Aditya Krishna Menon and Masashi Sugiyama. In International Conference on Learning Representations (ICLR), New Orleans, 2019.

Comparative document collection via classification. Umanga Bista, Alexander Mathews, Minjeong Shin, Aditya Krishna Menon and Lexing Xie. In AAAI Conference on Artificial Intelligence (AAAI), Honolulu, 2019.

The risk of trivial solutions in bipartite top ranking Aditya Krishna Menon. In Machine Learning, Volume 108, Issue 4, 2019.

Learning from binary labels with instance-dependent corruption. Aditya Krishna Menon, Brendan van Rooyen, and Nagarajan Natarajan. In Machine Learning, 2018.

The cost of fairness in binary classification. Aditya Krishna Menon and Robert C. Williamson. In Conference on Fairness, Accountability, and Transparency (FAT), New York City, 2018. *Best Technical Contribution.*

Proper losses for nonlinear Hawkes processes. Aditya Krishna Menon and Young Lee. In AAAI Conference on Artificial Intelligence (AAAI), New Orleans, 2018.

f-GANs in an information geometric nutshell. Richard Nock, Zac Cranko, Aditya Krishna Menon, Lizhen Qu and Robert C. Williamson. In Advances in Neural Information Processing Systems (NIPS), Los Angeles, 2017.

Predicting short-term public transport demand via inhomogeneous Poisson processes. Aditya Krishna Menon and Young Lee. In International Conference on Information and Knowledge Management (CIKM), Singapore, 2017.

Revisiting revisits in trajectory recommendation. Aditya Krishna Menon, Dawei Chen, Lexing Xie and Cheng Soon Ong. In RecSys Workshop on Recommender Systems for Citizens (CitRec), Como, 2017.

Robust, deep and inductive anomaly detection. Raghavendra Chalapathy, Aditya Krishna Menon and Sanjay Chawla. In European Conference on Machine Learning (ECML/PKDD), Skopje, 2017.

Making deep neural networks robust to label noise: a loss correction approach. Giorgio Patrini, Alessandro Rozza, Aditya Krishna Menon, Richard Nock, Lizhen Qu. In Computer Vision and Pattern Recognition (CVPR), Honolulu, 2017.

Low-rank linear cold-start recommendation from social data. Suvash Sedhain, Aditya Krishna Menon, Scott Sanner, Lexing Xie, and Darius Braziunas. In AAAI Conference on Artificial Intelligence (AAAI), San Francisco, 2017.

Bipartite ranking: a risk-theoretic perspective. Aditya Krishna Menon and Robert C. Williamson. In Journal of Machine Learning Research (JMLR), Volume 17, Issue 195. 2016.

A scaled Bregman theorem with applications. Richard Nock, Aditya Krishna Menon and Cheng Soon Ong. In Advances in Neural Information Processing Systems (NIPS), Barcelona, 2016.

Linking losses for density ratio and class-probability estimation. Aditya Krishna Menon and Cheng Soon Ong. In International Conference on Machine Learning (ICML), New York City, 2016.

Practical linear models for large-scale one-class collaborative filtering. Suvash Sedhain, Hung Bui, Jaya Kawale, Nikos Vlassis, Branislav Kveton, Aditya Krishna Menon, Trung Bui and Scott Sanner. In International Joint Conference on Artificial Intelligence (IJCAI), New York City, 2016.

On the effectiveness of linear models for one-class collaborative filtering. Suvash Sedhain, Aditya Krishna Menon, Scott Sanner and Darius Braziunas. In AAAI Conference on Artificial Intelligence (AAAI), Phoenix, 2016.

Learning with symmetric label noise: the importance of being unhinged. Brendan van Rooyen, Aditya Krishna Menon and Robert C. Williamson. In Advances in Neural Processing Systems (NIPS), Montreal, 2015.

Fine-grained OD estimation with automated zoning and sparsity regularisation. Aditya Krishna Menon, Chen Cai, Weihong Wang, Tao Wen and Fang Chen. In Transportation Research Part B: Methodological, Volume 80, October 2015, Pages 150-172.

Learning from corrupted binary labels via class-probability estimation. Aditya Krishna Menon, Brendan van Rooyen, Cheng Soon Ong and Robert C. Williamson. In International Conference on Machine Learning (ICML), Lille, 2015.

AutoRec: autoencoders meet collaborative filtering. Suvash Sedhain, Aditya Krishna Menon, Scott Sanner and Lexing Xie. In International World Wide Web Conference (WWW), Florence, 2015.

Cross-modal retrieval: a pairwise classification approach. Aditya Krishna Menon, Didi Surian and Sanjay Chawla. In SIAM Conference on Data Mining (SDM), Vancouver, 2015.

An approach to sparse, fine-grained OD estimation. Aditya Krishna Menon, Chen Cai, Weihong Wang, Tao Wen and Fang Chen. In 94th Annual Meeting of the Transportation Research Board (TRB), Washington DC, 2015.

Bayes-optimal scorers for bipartite ranking. Aditya Krishna Menon and Robert C. Williamson. In Conference on Learning Theory (COLT), Barcelona, 2014.

Inappropriate access detection for electronic health records using collaborative filtering. Aditya Krishna Menon, Xiaoqian Jiang, Jihoon Kim, Lucila Ohno-Machado, and Jaideep Vaidya. In Machine Learning, Volume 95 Number 1, Special Issue on Machine Learning for Society, 2014.

A colorful approach to text processing by example. Kuat Yessenov, Shubham Tulsiani, Aditya Krishna Menon, Robert C. Miller, Sumit Gulwani, Butler Lampson, and Adam Kalai. In ACM Symposium on User Interface Software and Technology (UIST), 2013.

Beam search algorithms for multilabel learning. Abhishek Kumar, Shankar Vembu, Aditya Krishna Menon, and Charles Elkan. In Machine Learning, 2013.

On the statistical consistency of algorithms for binary classification under class imbalance. Aditya Krishna Menon, Harikrishna Narasimhan, Shivani Agarwal and Sanjay Chawla. In International Conference on Machine Learning (ICML), Atlanta, 2013.

A machine learning framework for programming by example. Aditya Krishna Menon, Omer Tamuz, Sumit Gulwani, Butler Lampson, and Adam Tauman Kalai. In International Conference on Machine Learning (ICML), Atlanta, 2013.

Learning and inference in Probabilistic Classifier Chains with beam search. Abhishek Kumar, Shankar Vembu, Aditya Krishna Menon, and Charles Elkan. In Machine Learning and Knowledge Discovery in Databases - European Conference (ECML-PKDD), Proceedings Part I, 2012.

Doubly optimized calibrated Support Vector Machine (DOC-SVM): an algorithm for joint optimization of discrimination and calibration. Xiaoqian Jiang, Aditya Krishna Menon, Shuang Wang, Jihoon Kim, and Lucila Ohno-Machado. In PLoS ONE, 7(11): e48823, 2012.

Predicting accurate probabilities with a ranking loss. Aditya Krishna Menon, Xiaoqian Jiang, Shankar Vembu, Charles Elkan, and Lucila Ohno-Machado. In International Conference on Machine Learning (ICML), Edinburgh, 2012.

Link prediction via matrix factorization. Aditya Krishna Menon, Charles Elkan. In Machine Learning and Knowledge Discovery In Databases - European Conference, ECML-PKDD, Proceedings Part II, 2011.

Response prediction using collaborative filtering with hierarchies and side-information. Aditya Krishna Menon, Krishna-Prasad Chitrapura, Sachin Garg, Deepak Agarwal, and Nagaraj Kota. In Knowledge Discovery and Data Mining (KDD), San Diego, 2011.

Fast algorithms for approximating the singular value decomposition. Aditya Krishna Menon, Charles Elkan. In Transactions of Knowledge and Data Discovery: Special Issue on Large-Scale Data Mining (TKDD-LDMTA), 2010.

A log-linear model with latent features for dyadic prediction. Aditya Krishna Menon, Charles Elkan. In International Conference on Data Mining (ICDM), Sydney, 2010.

Predicting labels for dyadic data. Aditya Krishna Menon, Charles Elkan. In Data Mining and Knowledge Discovery: Special Issue on Papers from ECML-PKDD, Volume 21, Number 2, 2010.

An incremental data-stream sketch using sparse random projections. Aditya Krishna Menon, Gia Vinh Anh Pham, Sanjay Chawla and Anastasios Viglas. In SIAM Conference on Data Mining (SDM), Minnesota, 2007.