

# Karthik Sridharan

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## Contact Information

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<http://www.cs.cornell.edu/~sridharan/>

## Research Interests

Machine Learning, Statistical Learning Theory, Online Learning and Decision Making, Optimization, Empirical Process Theory, Concentration Inequalities, Game Theory

## Education

**Ph.D.**, Computer Science, Sep 2006 - Oct 2011

- Institute : [Toyota Technological Institute at Chicago](#)
- Advisor: [Nathan Srebro](#)
- Area of Study: Theoretical Machine Learning

**M.S.**, Computer Science, Aug 2004 - Jun 2006

- Institute : University at Buffalo, State University of New York
- Advisor: Venu Govindaraju
- Area of Study: Biomtrics/Applied Machine Learning

**B.E.**, Computer Science and Engineering, Aug 2000 - Jun 2004

- Institute : M.S. Ramaiah Institute of Technology, Bangalore, India

## Work Experience

**Associate Professor, (2020-current)**

- Department : Computer Science
- Institute : Cornell University

**Assistant Professor, (2014-2019)**

- Department : Computer Science
- Institute : Cornell University

**Postdoctoral Research Scholar**, (Nov 2011 to 2014)

- Institute : Department of Statistics, University of Pennsylvania
- Supervisor : Prof. Alexander Rakhlin , co-supervisor : Prof. Michael Kearns

**Internship**, Summer'09

- Institute : Microsoft Research, Redmond
- Mentor : Ofer Dekel
- Projects : Robust selective sampling from single and multiple teachers

**Research Assistant**, Sep 2004 - Jun 2006

- Institute : Center for Unified Biometrics and Sensors, SUNY Buffalo
- Mentor : Venu Govindaraju
- Projects : Semantic Face Retrieval, Facial Expression Recognition and Analysis

## Grants, Fellowships, Awards

**Student Best Paper Award** - Conference on Learning Theory (COLT), 2019

**Best Paper Award** - Algorithmic Learning Theory (ALT), 2019

**Student Best Paper Award** - Conference on Learning Theory (COLT), 2018

**Linkedin Research Award**- 2022

**Alfred P. Sloan Research Fellow in Computer Science, 2018**

**NSF CAREER Award**, CAREER: New Paradigms for Online Machine Learning, Award Number:1750575, Robust Intelligence, March 2018.

**Simons-Berkeley Research Fellowship**, long-term visitor, Foundations of ML, Spring'16

**NSF (DMS-1521529)** Collaborative Research: Novel Computational and Statistical Approaches to Prediction and Estimation (co-PI with A. Rakhlin), CDS&E-MSS, Start: Aug, 2015

**Best Paper Award** - Conference on Learning Theory (COLT), 2011

**Best Paper Award** - Conference on Learning Theory (COLT), 2010

**Best Paper Award (Second Prize)** - IEEE Automatic Identification Advanced Technologies (AutoID), 2005

## Graduate Students

### Past Students:

- Dylan J. Foster, PhD, Fall 2018. Currently Senior Researcher at Microsoft Research New England/NY
- Chuan Guo, PhD, Co-advised by Kilian Weinberger. Currently Researcher at Meta AI (FAIR)
- Ayush Sekhari, PhD, Co-advised by Robert Kleinberg. Currently postdoc at MIT

### Current Students:

- August Chen, PhD (optimization, sampling and generative AI)
- Linda Lu, PhD (machine unlearning)
- Wilson Yoo, PhD (safety in ML)

## Teaching Experience

### Spring 2024, Spring 2025

- Course : Introduction to Machine Learning (CS 3780/5780)
- Institution : Cornell University

### Spring 2022, Fall 2023

- Course : Mathematical Foundations of Machine Learning (CS 4783/5783)
- Institution : Cornell University

### Fall 2014, 2015, Spring 2018, Fall 2018, Fall 2019, Fall 2021, Fall 2022, Fall 2024

- Course : Machine Learning Theory (CS 6783)
- Institution : Cornell University

### Spring 2015, 2016, Fall 2016, 2017, Spring 2019, 2020

- Course : Machine Learning for Data Sciences (CS 4786/5786)
- Institution : Cornell University

### Spring 2012, 2014 (Co-Taught with Prof. Alexander Rakhlin)

- Course : Statistical Learning Theory and Sequential Prediction
- Institution : University of Pennsylvania

### Teaching Assistant, Winter 2011

- Course : Computational and Statistical Learning Theory
- Instructor : Nathan Srebro
- Institute : TTIC/ University of Chicago

### Teaching Assistant, Spring 2010

- Course : Convex Optimization
- Instructor : Nathan Srebro
- Institute : TTIC/ University of Chicago

## Publications

(other than publications marked by \* all others are listed by alphabetical order)

### Conferences :

1. **Selective Sampling and Imitation Learning via Online Regression** Ayush Sekhari, Karthik Sridharan, Wen Sun, and Runzhe Wu Neural Information Processing Systems (NeurIPS), 2023
2. **Contextual Bandits and Imitation Learning via Preference-Based Active Queries** Ayush Sekhari, Karthik Sridharan, Wen Sun, and Runzhe Wu Neural Information Processing Systems (NeurIPS), 2023
3. **From Gradient Flow on Population Loss to Learning with Stochastic Gradient Descent** Chris De Sa, Satyen Kale, Jason D. Lee, Ayush Sekhari, Karthik Sridharan Neural Information Processing Systems (NeurIPS), 2022
4. **On the Complexity of Adversarial Decision Making** Dylan J. Foster, Alexander Rakhlin, Ayush Sekhari, Karthik Sridharan Neural Information Processing Systems (NeurIPS), 2022  
*(Oral)*
5. **Guarantees for Epsilon-Greedy Reinforcement Learning with Function Approximation** Christoph Dann, Yishay Mansour, Mehryar Mohri, Ayush Sekhari, Karthik Sridharan International Conference on Machine Learning (ICML 2022) . Short version at RLDM 2022 - Reinforcement Learning and Decision Making conference.
6. **SGD: The role of Implicit Regularization, Batch-size and Multiple Epochs** Satyen Kale, Ayush Sekhari, Karthik Sridharan Neural Information Processing Systems (NeurIPS), 2021
7. **Agnostic Reinforcement Learning with Low-Rank MDPs and Rich Observations** Christoph Dann, Yishay Mansour, Mehryar Mohri, Ayush Sekhari, Karthik Sridharan Neural Information Processing Systems (NeurIPS), 2021
8. **Online learning with dynamics: A minimax perspective** Kush Bhatia, Karthik Sridharan Neural Information Processing Systems (NeurIPS), 2020
9. **Reinforcement Learning with Feedback Graphs** Christoph Dann, Yishay Mansour, Mehryar Mohri, Ayush Sekhari, Karthik Sridharan NeurIPS 2020. Short version at ICML 2020 Theoretical Foundations of RL workshop.
10. **Second-Order Information in Non-Convex Stochastic Optimization: Power and Limitations** Yossi Arjevani, Yair Carmon, John C Duchi, Dylan J Foster, Ayush Sekhari, Karthik Sridharan COLT 2020.
11. **Hypothesis Set Stability and Generalization** Dylan J. Foster, Spencer Greenberg, Satyen Kale, Haipeng Luo, Mehryar Mohri, Karthik Sridharan Neural Information Processing System (NeurIPS 2019)
12. **The Complexity of Making the Gradient Small in Stochastic Convex Optimization** Dylan J. Foster, Ayush Sekhari, Ohad Shamir, Nathan Srebro, Karthik Sridharan, Blake Woodworth Conference on Learning Theory (COLT 2019) *(Student Best paper award)*
13. **Distributed Learning with Sublinear Communication** Jayadev Acharya, Christopher De Sa, Dylan J. Foster, Karthik Sridharan International Conference on Machine Learning (ICML 2019)  
*(oral  $\approx$  4.5% acceptance).*
14. **Training Well-Generalizing Classifiers for Fairness Metrics and Other Data-Dependent Constraints** Andrew Cotter, Maya Gupta, Heinrich Jiang, Nathan Srebro, Karthik Sridharan, Serena Wang, Blake Woodworth, Seungil You International Conference on Machine Learning (ICML 2019)
15. **Two-Player Games for Efficient Non-Convex Constrained Optimization** Andrew Cotter, Heinrich Jiang and Karthik Sridharan Algorithmic Learning Theory (ALT 2019) *(Best paper award)*
16. **Uniform Convergence of Gradients for Non-Convex Learning and Optimization** Dylan Foster, Ayush Sekhari, Karthik Sridharan Neural Information Processing System (NeurIPS 2018)
17. **Online Learning: Sufficient Statistics and the Burkholder Method** Dylan Foster, Alexander Rakhlin, Karthik Sridharan Conference on Learning Theory (COLT 2018)

18. **Logistic Regression: The Importance of Being Improper**  
Dylan Foster, Satyen Kale, Haipeng Luo, Mehryar Mohri, Karthik Sridharan  
Conference on Learning Theory (COLT 2018) (*Student Best paper award*)
19. **Small-loss bounds for online learning with partial information**  
Thodoris Lykouris, Karthik Sridharan, Eva Tardos  
Conference on Learning Theory (COLT 2018)
20. **Inference in Sparse Graphs with Pairwise Measurements and Side Information**  
Dylan Foster, Daniel Reichman, Karthik Sridharan  
Artificial Intelligence and Statistics (AISTATS 2018)
21. **Parameter-Free Online Learning via Model Selection**  
Dylan Foster, Satyen Kale, Mehryar Mohri, Karthik Sridharan  
Neural Information Processing Systems (NIPS 2017) (*spotlight  $\approx$  4.94% acceptance*)
22. **ZIGZAG: A new approach to adaptive online learning**  
Dylan Foster, Alexander Rakhlin, Karthik Sridharan  
Conference on Learning Theory (COLT 2017)
23. **On Equivalence of Martingale Tail Bounds and Deterministic Regret Inequalities**  
Alexander Rakhlin, Karthik Sridharan  
Conference on Learning Theory (COLT 2017)
24. **Efficient Multiclass Prediction on Graphs via Surrogate Losses**  
Alexander Rakhlin, Karthik Sridharan  
Artificial Intelligence and Statistics (AISTATS 2017)
25. **Learning in Games: Robustness of Fast Convergence**  
Dylan Foster, Zhiyuan Li, Thodoris Lykouris, Karthik Sridharan, Eva Tardos  
Neural Information Processing Systems (NIPS 2016)
26. **Exploiting the Structure: Stochastic Gradient Methods Using Raw Clusters\***  
Zeyuan Allen-Zhu\*, Yang Yuan\*, Karthik Sridharan  
Neural Information Processing Systems (NIPS 2016) (\* - main contributors)
27. **BISTRO: An Efficient Relaxation-Based Method for Contextual Bandits**  
Alexander Rakhlin, Karthik Sridharan  
International Conference on Machine Learning (ICML 2016)
28. **Differentially Private Causal Inference**  
Matt Kusner, Yu Sun, Karthik Sridharan, Kilian Weinberger  
Artificial Intelligence and Statistics (AISTATS 2015)
29. **Adaptive Online Learning**  
Dylan Foster, Alexander Rakhlin, Karthik Sridharan  
Neural Information Processing Systems (NIPS 2015) (*spotlight  $\approx$  4.46% acceptance*)
30. **Hierarchies of Relaxations for Online Prediction Problems with Evolving Constraints**  
Alexander Rakhlin, Karthik Sridharan  
Conference on Learning Theory (COLT), 2015
31. **Learning with Square Loss: Localization through Offset Rademacher Complexity**  
Tengyuan Liang, Alexander Rakhlin, Karthik Sridharan  
Conference on Learning Theory (COLT), 2015
32. **Online Optimization : Competing with Dynamic Comparators**  
Ali Jadbabaie, Alexander Rakhlin, Shahin Shahrampour, Karthik Sridharan  
Artificial Intelligence and Statistics (AISTATS), 2015
33. **Online Non-parametric Regression**  
Alexander Rakhlin, Karthik Sridharan  
Conference on Learning Theory (COLT), 2014
34. **On Semi-Probabilistic Universal Prediction**  
Alexander Rakhlin, Karthik Sridharan  
Proceedings of IEEE Information Theory Workshop, 2013. Invited paper

35. **Optimization, Learning, and Games with Predictable Sequences**  
Alexander Rakhlin, Karthik Sridharan  
Neural Information Processing Systems (NIPS) 2013.
36. **Competing With Strategies**  
Wei Han, Alexander Rakhlin, Karthik Sridharan  
Conference on Learning Theory (COLT) 2013.
37. **Online Learning With Predictable Sequences**  
Alexander Rakhlin, Karthik Sridharan  
Conference on Learning Theory (COLT) 2013.
38. **Localization and Adaptation in Online Learning**  
Alexander Rakhlin, Ohad Shamir, Karthik Sridharan  
Artificial Intelligence and Statistics (AISTATS) 2013.
39. **Relax and Randomize : From Value to Algorithms**  
Alexander Rakhlin, Ohad Shamir, Karthik Sridharan  
Neural Information Processing Systems (NIPS) 2012 (*oral  $\approx$  1.36% acceptance*).
40. **Making Stochastic Gradient Descent Optimal for Strongly Convex Problems**  
Alexander Rakhlin, Ohad Shamir, Karthik Sridharan  
International Conference on Machine Learning (ICML), 2012
41. **Minimizing The Misclassification Error Rate Using a Surrogate Convex Loss**  
Shai Ben-David, David Loker, Nathan Srebro, Karthik Sridharan  
International Conference on Machine Learning (ICML), 2012
42. **On the Universality of Online Mirror Descent**  
Nathan Srebro, Karthik Sridharan, Ambuj Tewari  
Neural Information Processing Systems (NIPS), 2011
43. **Better Mini-Batch Algorithms via Accelerated Gradient Methods**  
Andrew Cotter, Ohad Shamir, Nathan Srebro, Karthik Sridharan  
Neural Information Processing Systems (NIPS), 2011
44. **Online Learning: Stochastic and Constrained Adversaries**  
Alexander Rakhlin, Karthik Sridharan, Ambuj Tewari  
Neural Information Processing Systems (NIPS), 2011
45. **Online Learning: Beyond Regret**  
Alexander Rakhlin, Karthik Sridharan, Ambuj Tewari  
Conference on Learning Theory (COLT) 2011 (*Best paper award*).
46. **Complexity-based Approach to Calibration with Checking Rules**  
Dean Foster, Alexander Rakhlin, Karthik Sridharan, Ambuj Tewari  
Conference on Learning Theory (COLT) 2011.
47. **Online Learning: Random Averages, Combinatorial Parameters and Learnability**  
Alexander Rakhlin, Karthik Sridharan, Ambuj Tewari  
Neural Information Processing Systems (NIPS) 2010 (*oral  $\approx$  1.64% acceptance*).
48. **Smoothness, Low Noise and Fast Rates**  
Nathan Srebro, Karthik Sridharan, Ambuj Tewari  
Neural Information Processing Systems (NIPS) 2010.
49. **Learning Kernel-Based Halfspaces with the Zero-One Loss**  
Shai Shalev-Shwartz, Ohad Shamir, Karthik Sridharan  
Conference on Learning Theory (COLT), 2010 (*Best paper award*).
50. **Robust Selective Sampling from Single and Multiple Teachers**  
Ofar Dekel, Claudio Gentile, Karthik Sridharan  
Conference on Learning Theory (COLT), 2010
51. **Convex Games in Banach Spaces**  
Karthik Sridharan, Ambuj Tewari  
Conference on Learning Theory (COLT), 2010

52. **Learning exponential families in high-dimensions: Strong convexity and sparsity**  
Sham Kakade, Ohad Shamir, Karthik Sridharan, Ambuj Tewari  
International Conference on Artificial Intelligence and Statistics (AISTATS), 2010
53. **Learnability and Stability in the General Learning Setting**  
Shai Shalev-Shwartz, Ohad Shamir, Nathan Srebro, Karthik Sridharan  
Conference on Learning Theory (COLT), 2009
54. **Stochastic Convex Optimization**  
Shai Shalev-Shwartz, Ohad Shamir, Nathan Srebro, Karthik Sridharan  
Conference on Learning Theory (COLT), 2009
55. **The Complexity of Improperly Learning Large Margin Halfspaces**  
Shai Shalev-Shwartz, Ohad Shamir, Karthik Sridharan  
Open Problems, Conference on Learning Theory (COLT), 2009
56. **Multi-View Clustering via Canonical Correlation Analysis**  
Kamalika Chaudhuri, Sham Kakade, Karen Livescure, Karthik Sridharan  
International Conference on Machine Learning (ICML), 2009
57. **On the Complexity of Linear Prediction: Risk Bounds, Margin Bounds and Regularization**  
Sham Kakade, Karthik Sridharan, Ambuj Tewari  
Neural Information Processing Systems (NIPS), 2008
58. **Fast Rates for Regularized Objectives**  
Shai Shalev-Shwartz, Nathan Srebro, Karthik Sridharan  
Neural Information Processing Systems (NIPS), 2008
59. **Information Theoretic Framework for Multi-view Learning\***  
Karthik Sridharan, Sham Kakade  
Conference on Learning Theory (COLT), 2008
60. **Competitive Mixtures of Simple Neurons\***  
Karthik Sridharan, Matthew J Beal, Venu Govindaraju  
International Conference on Pattern Recognition (ICPR), 2006
61. **Identifying handwritten text in mixed documents\***  
Faisal Farooq, Karthik Sridharan, Venu Govindaraju  
International Conference on Pattern Recognition (ICPR), 2006
62. **Classification of Machine Print and Handwritten Arabic Documents\***  
Karthik Sridharan, Faisal Farooq, Venu Govindaraju  
Symposium on Document Image Understanding Technology (SDIUT), 2005
63. **A Sampling Based Approach to Facial Feature Extraction\***  
Karthik Sridharan, Venu Govindaraju  
IEEE Automatic Identification Advanced Technologies (AUTOID), 2005  
(*Best paper award, 2nd prize*)
64. **A Probabilistic Approach to Semantic Face Retrieval\***  
Karthik Sridharan, Sankalp Nayak, Sharat Chikkerur, Venu Govindaraju  
Audio and Video-based Biometric Person Authentication (AVBPA), 2005
65. **A Dynamic Migration Model for Self-adaptive Genetic Algorithms\***  
K.G. Srinivasa, Karthik Sridharan, P. D. Shenoy, Venugopal K.R., L.M. Patnaik  
International Conference on Intelligent Data Engineering and Automated Learning, 2004
66. **An Effective Content-Based Image Retrieval System Using STI features and Relevance feedback\***  
K.G. Srinivasa, Karthik Sridharan, P. D. Shenoy, Venugopal K.R., L.M. Patnaik  
International Conference on Knowledge Based Computer Systems (KBCS), 2004
67. **EASOM: An Efficient Soft Computing Method for Predicting the Share Values\***  
K.G. Srinivasa, Karthik Sridharan, P. D. Shenoy, Venugopal K.R., L.M. Patnaik  
International Conference on Artificial Intelligence and Applications (AIA), 2004

**Journals :**

68. **Small-loss Bounds for Online Learning with Partial Information**  
Lykouris, Thodoris, Karthik Sridharan, and Eva Tardos  
To appear, Mathematics of Operations Research.
69. **Optimization with Non-Differentiable Constraints with Applications to Fairness, Recall, Churn, and Other Goals**  
Andrew Cotter, Heinrich Jiang, Serena Wang, Taman Narayan, Maya Gupta, Seungil You, Karthik Sridharan  
Journal of Machine Learning Research, (to appear) 2019
70. **Empirical Entropy, Minimax Regret and Minimax Risk**  
Alexander Rakhlin, Karthik Sridharan, Alexandre Tsybakov  
Bernoulli Journal, Volume 23, Number 2, 789-824.
71. **Online Learning via Sequential Complexities**  
Alexander Rakhlin, Karthik Sridharan, Ambuj Tewari  
Journal of Machine Learning Research (JMLR), vol 16, pp. 155–186, 2015
72. **Sequential Complexities and Uniform Martingale Laws of Large Numbers**  
Alexander Rakhlin, Karthik Sridharan, Ambuj Tewari  
Probability Theory and Related Fields, 2015, Volume 161, Issue 1-2, pp 111-153.
73. **Selective Sampling and Active Learning from Single and Multiple Teachers**  
Ofar Dekel, Claudio Gentile, Karthik Sridharan  
Journal of Machine Learning Research (JMLR), 2012
74. **Learning Kernel Based Half-spaces with the 0-1 Loss**  
Shai Shalev-Shwartz, Ohad Shamir, Karthik Sridharan  
SIAM Journal of Computing, 2011
75. **Learnability, Stability and Uniform Convergence**  
Shai Shalev-Shwartz, Ohad Shamir, Nathan Srebro, Karthik Sridharan  
Journal of Machine Learning Research (JMLR), 2010.
76. **A Neural Network based CBIR System using STI Features and Relevance Feedback\***  
K.G. Srinivasa, Karthik Sridharan, P. D. Shenoy, Venugopal K.R., L.M. Patnaik  
International Journal on Intelligent Data Analysis, Volume 10, Number 2, 2006.

**Theses :**

77. **Learning From an Optimization Viewpoint**  
Karthik Sridharan, Ph.D. Thesis  
Advisor : Nathan Srebro  
Committee : David McAllester, Arkadi Nemirovski, Alexander Razborov, Nati Srebro  
Toyota Technological Institute, Chicago, 2011
78. **Semantic Face Retrieval**  
Karthik Sridharan, Master's Thesis  
Advisor : Venu Govindaraju  
Computer Science, SUNY Buffalo, 2006

**Books and Book Chapters:**

79. **Prediction of Sequences**  
Alexander Rakhlin, Karthik Sridharan  
Book, in Preparation.
80. **On Martingale Extensions of Vapnik-Chervonenkis Theory with Applications to Online Learning**  
Alexander Rakhlin, Karthik Sridharan  
Chapter 15 in Measures of Complexity, Festschrift in honor of A. Chervonenkis.

<b>Area chair or senior PC</b>	COLT 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024; ALT 2015, 2018, 2019, 2020, 2021, 2022; ICML 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, NeurIPS 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024 IJCAI 2019, AAAI 2018
<b>Refereeing</b>	<p><b>Conference Refereeing :</b> NIPS, ICML, COLT, AISTATS, ALT, IJCAI, AAAI, STOC, FOCS</p> <p><b>Journal Refereeing :</b> Journal of Machine Learning Research, Machine Learning, Pattern Recognition Letters, IEEE Transactions on Information Theory, Mathematical Programming SERIES A and B, Bernoulli Journal, Annals of Statistics, SIAM journal of Optimization, Mathematics of Operations Research</p>
<b>Selected Invited Talks</b>	<p>FIND seminar, ECE Cornell, Fall 2024</p> <p>Invited Talk, TTICs 20th Anniversary 2023</p> <p>Keynote speaker for Mathematics in ML mini symposium at CDSE day in University at Buffalo April 2019</p> <p>Center for Applied Mathematics, Colloquium, Fall, 2018</p> <p>Information Theory and Applications, 2018</p> <p>Information Theory and Applications, 2017</p> <p>Wilks Statistics Seminar, Princeton, 2016</p> <p>Workshop on Learning From Easy Data, Lorentz Center, Leiden, Amsterdam, 2016</p> <p>Invited talk in Online Learning session at World Congress in Probability and Statistics, Toronto, 2016</p> <p>Workshop on Optimization and Statistical Learning, Les Houches, France, 2016</p> <p>Information Theory and Applications, 2016</p> <p>Workshop on Online Algorithms and Learning, Lorentz Center, Leiden, Amsterdam, 2015</p> <p>IMS Program on Stochastic Methods in Game Theory, Singapore, Nov, 2015</p> <p>"Convexity and Optimization: Theory and Applications", Institute for Mathematics and its Applications, Minnesota, 2015</p> <p>Workshop on Optimization and Statistical Learning, Les Houches, France, 2015</p> <p>Information Theory and Applications, 2015</p> <p>Mathematics of Machine Learning Program, April-July 2014, Barcelona, Spain, 2014</p> <p>Information Theory and Applications, 2014</p> <p>Meeting in Mathematical Statistics, CIRM, Marseille, France, 2014</p>
<b>Cornell Graduate Field Memberships</b>	<p>Computer Science</p> <p>Statistics</p> <p>Operations Research and Industrial Engineering</p> <p>Center for Applied Mathematics</p>
<b>Cornell Services</b>	<p>Faculty Recruitment Committee CS 2024</p> <p>PhD Admissions committee member for Computer Science Department in 2015, 2016, 2017, 2019, 2020, 2022, 2023</p> <p>Served part-time on Faculty Recruitment committee for Computer Science Department 2018 (jointly with Prof. Weinberger)</p> <p>PhD Admissions committee member for Center of Applied Maths in 2016</p> <p>Faculty Recruitment committee for Statistics (DSS) 2019</p> <p>Fall 2019 Colloquium Committee</p> <p>Cornell University (CALS) Diversity Hosting Meet and Greet 2019</p>