

JINWOO SHIN

Associate Professor

School of Electrical Engineering, KAIST (Korea Advanced Institute of Science and Technology), Daejeon, Korea

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EDUCATIONAL BACKGROUND

Massachusetts Institute of Technology, Cambridge, MA, USA, 2005 - 2010

Ph.D. in Mathematics

- Thesis Title : Efficient Distributed Medium Access Algorithm
- Received the **George M. Sprowls Award** given to the best doctoral thesis in MIT CS
- Advisor : Devavrat Shah

Seoul National University, Seoul, Korea, 1997 - 2001

B.S. in Computer Science and Mathematics

Seoul Science High School, Seoul, Korea, 1994 - 1997

EMPLOYMENT HISTORY

Korea Advanced Institute of Science and Technology, Daejeon, Korea, Sep 2016 - present

- Title : Associate Professor at School of Electrical Engineering

Korea Advanced Institute of Science and Technology, Daejeon, Korea, Jul 2013 - Aug 2016

- Title : Assistant Professor at School of Electrical Engineering

IBM T. J. Watson Research, Yorktown Heights, NY, USA, Sep 2012 - Jun 2013

- Title : Postdoctoral Researcher

Los Alamos National Laboratory, Los Alamos, NM, USA, Summer 2008, 2012, 2013, 2015

- Title : Research Intern (2008), Visiting Faculty Researcher (2012, 2013, 2015)

Georgia Institute of Technology, Atlanta, GA, USA, Sep 2010 - Jun 2012

- Title : Postdoctoral Fellow at Algorithms & Randomness Center

Massachusetts Institute of Technology, Cambridge, MA, USA, Fall 2009 - Summer 2010

- Title : Research Assistant

Penta Security Systems Inc., Seoul, Korea, Aug 2001 - Jan 2005

- Title : System Engineer and Programmer

RESEARCH FIELDS OF INTEREST

Machine Learning and Algorithms

(published in top conferences including 4 NIPS, 4 ICML, 3 AISTATS, 1 ICLR, 1 UAI, 2 FOCS, 1 CVPR)

- Graphical Model
- Deep Learning
- Distributed Optimization and Computation

- Computer Vision
- Theoretical Computer Science

Communication and Networks

(published in top conferences including 6 SIGMETRICS, 7 INFOCOM, 3 MOBIHOC, 2 FOCS, 3 ISIT, 1 CDC)

- Combinatorial Resource Allocation and Distributed Scheduling
- Social Network Analysis and Game Theory

TEACHING EXPERIENCE

COURSES TAUGHT

Korea Advanced Institute of Science and Technology, Daejeon, Korea, Jul 2013 - present

- Fall 2017: Introduction to Big Data (EE412), 68 students, 3.89 student rating
- Spring 2017: Advanced Stochastic Processes (EE807), 36 students, 4.10 student rating
- Fall 2016: Introduction to Big Data (EE412), 49 students, 4.23 student rating
- Spring 2016: Discrete Mathematics (EE488), 52 students, 4.17 student rating
- Fall 2015: Fundamentals of Machine Learning (EE807), 22 students, 3.98 student rating
- Spring 2015: Introduction to Big Data (EE488), 33 students, 4.46 student rating
- Fall 2014: Discrete Mathematics (EE488), 24 students, 4.18 student rating
- Spring 2014: Introduction to Big Data (EE488), 37 students, 4.34 student rating
- Fall 2013: Data Structures and Algorithms (EE205), 73 students, 4.30 student rating (max=5.0)

Massachusetts Institute of Technology, Cambridge, MA, USA, Fall 2006 - Spring 2009

- Title : Teaching Assistant
- Classes : Introduction to Algorithms (Fall 2007) instructed by Madhu Sudan and Ronitt Rubinfeld, Probability & Random Variables (Fall 2008) instructed by Jonathan Kelner

Korean Mathematics Society, Seoul, Korea, Summer 1998

- Title : Teaching Assistant
- Description : Taught a daily recitation for the International Mathematical Olympiad Korean team.

PH.D. STUDENTS SUPERVISED

Donggyu Yun (co-advised with Yung Yi), Ph.D. in 2016, and left for NAVER, Korea

Jungseul OK (co-advised with Yung Yi), Ph.D. in 2016, and left for KTH Royal Institute of Technology, Sweden

Hyeryung Jang (co-advised with Yung Yi), Ph.D. in 2017, and left for King's College London, UK

Tae-Hyun Oh (co-advised with In So Kweon), Ph.D. in 2017, and left for Massachusetts Institute of Technology, USA

M.S. STUDENTS SUPERVISED

Sanghyuk Chun, M.S. in 2016, and left for KAKAO, Korea

Kwihyuk Jin, M.S. in 2017, and left for Qualcomm, USA

Donggyu Lee, M.S. in 2018, and left for National University of Singapore

CURRENT SUPERVISING STUDENTS

Kimin Lee, expected to graduate with Ph.D. in 2019

Yunhun Jang, expected to graduate with Ph.D. in 2019

Hyungwon Choi, expected to graduate with Ph.D. in 2019
Sejun Park, expected to graduate with Ph.D. in 2019
Sungsoo Ahn, expected to graduate with P.D. in 2020
Insu Han, expected to graduate with P.D. in 2020
Junhyun Nam, expected to graduate with P.D. in 2022
Sukmin Yoo, expected to graduate with P.D. in 2022
Hankook Lee, expected to graduate with M.S. in 2018
Sangwoo Mo, expected to graduate with M.S. in 2018
Jaehyung Kim, expected to graduate with M.S. in 2019
Jongheon Jung, expected to graduate with M.S. in 2019
Jongjin Park, expected to graduate with M.S. in 2020

HONORS AND AWARDS

SELECTED

KAIST Technology Innovation Award, 2015
ACM SIGMETRICS Rising Star Award, 2015
Bloomberg Scientific Research Award, 2015
Best Publication Award from *INFORMS Applied Probability Society*, 2013
Best Paper Award in *ACM MOBIHOC*, 2013
George M. Sprowls Award from MIT EECS Department, 2010
Kenneth C. Sevcik Best Student Paper Award in *ACM SIGMETRICS/Performance*, 2009
Silver Medal in the 36th **International Mathematical Olympiad** in Toronto, Canada, 1995

OTHERS

NIPS Oral Presentation (acceptance ratio = 1.8%), 2016
NIPS Spotlight Presentation (acceptance ratio = 4%), 2015
MSRA Fellowship Nomination Award, 2015 (supervised)
Bronze Prize at the 21th Samsung Humantech Thesis Prize Awards, 2015 (supervised)
Gold Prize at the 20th Samsung Humantech Thesis Prize Awards, 2014 (supervised)
Qualcomm Fellowship Award, 2013 (supervised)
ARC Postdoctoral Fellowship, 2010 - 2012
MIT Applied Mathematics Fellowship, 2005 - 2006
Samsung Frontier Membership, 1999
Second Place in the 17th Korean Undergraduate Mathematics Competition, 1998
Science Olympiad Scholarship, 1997 - 2001
First Place in the 8th Seoul Mathematical Olympiad from Korean Mathematical Society, 1996
Silver Medal in the 9th Korean Mathematical Olympiad from Korean Mathematical Society, 1995
Bronze Medal in the 7th Asian Pacific Mathematical Olympiad, 1995
Silver Medal in the 8th Korean Mathematical Olympiad from Korean Mathematical Society, 1994

PUBLICATIONS

JOURNAL

- [J1] Maximum Weight Matching using Odd-sized Cycles: Max-Product Belief Propagation and Half-Integrality
– Jinwoo Shin, Andrew Gelfand and Michael Chertkov
– *IEEE Transactions on Information Theory*, 64(3): 1471-1480, 2018
- [J2] Game Theoretic Perspective of Optimal CSMA
– Hyeryung Jang, Se-Young Yun, Jinwoo Shin and Yung Yi
– *IEEE Transactions on Wireless Communications*, 17(1): 194-209, 2018
- [J3] Approximating Spectral Sums of Large-scale Matrices using Stochastic Chebyshev Approximations
– Insu Han, Dmitry Malioutov, Haim Avron and Jinwoo Shin
– *SIAM Journal on Scientific Computing*, 39(4), A1558-A1585, 2017
- [J4] Convergence and Correctness of Max-Product Belief Propagation for Linear Programming
– Sejun Park and Jinwoo Shin
– *SIAM Journal on Discrete Mathematics*, 31(3): 2228-2236, 2017
- [J5] Scheduling using Interactive Optimization Oracles for Constrained Queueing Networks
– Tonghoon Suk and Jinwoo Shin
– *Mathematics of Operations Research*, 42(3): 723-744, 2017
- [J6] On Maximizing Diffusion Speed over Social Networks with Strategic Users
– Jungseul Ok, Jinwoo Shin and Yung Yi
– *IEEE/ACM Transactions on Networking*, 24(6): 3798-3811, 2016
- [J7] Breaking the Trapping Sets in LDPC Codes: Check Node Removal and Collaborative Decoding
– Soonyoung Kang, Jaekyun Moon, Jeongseok Ha and Jinwoo Shin
– *IEEE Transactions on Communications*, 64(1): 15-26, 2016
- [J8] Delay Optimal CSMA with Linear Virtual Channels under General Topology
– Dongmyung Yun, Donggyu Lee, Jinwoo Shin, Yung Yi and Se-Young Yun
– accepted to appear in *IEEE/ACM Transactions on Networking*, 24(5): 2847-2857, 2016
- [J9] Distributed Medium Access over Time-varying Channels
– Se-Young Yun, Jinwoo Shin and Yung Yi
– accepted to appear in *IEEE/ACM Transactions on Networking*, 24(5): 3000-3013, 2016
- [J10] CSMA using the Bethe Approximation: Scheduling and Utility Maximization
– Se-Young Yun, Jinwoo Shin and Yung Yi
– *IEEE Transactions on Information Theory*, 61(6):4776-4787, 2015
- [J11] Impacts of Selfish Behaviors on the Scalability of Hybrid Server Client and Peer-to-Peer Caching Systems
– Youngmi Jin, Yung Yi, George Kesidis, Fatih Kocak and Jinwoo Shin
– *IEEE/ACM Transactions on Networking*, 23(6):1818-1831, 2015
- [J12] Minimally Invasive Mechanism Design: Distributed Covering with Carefully Chosen Advice
– Maria-Florina Balcan, Sara Krehbiel, Georgios Piliouras and Jinwoo Shin
– *ACM Transactions on Economics and Computation*, 2(4):1-22, 2014
- [J13] The Complexity of Approximating a Bethe Equilibrium
– Jinwoo Shin
– *IEEE Transactions on Information Theory*, 60(7):3959-3969, 2014
- [J14] From Local to Global Stability in Stochastic Processing Networks through Quadratic Lyapunov Functions
– Ton Dieker and Jinwoo Shin
– *Mathematics of Operations Research*, 156(1):75-99, 2013

- [J15] Improved Spatial Mixing Condition for the Hard-Core Model
- Ricardo Restrepo, Jinwoo Shin, Prasad Tetali, Eric Vigoda and Linji Yang
 - *Probability Theory and Related Fields*, 156(1):75-99, 2013
- [J16] Randomized Scheduling Algorithm for Queueing Networks
- Devavrat Shah and Jinwoo Shin
 - *Annals of Applied Probability*, 22(1):128-171, 2012,
 - *Best Publication Award from INFORMS Applied Probability Society, 2013*
- [J17] DRAM Scheduling Policy for a GPGPU Architecture Based on a Potential Function
- Hyesoon Kim, Nagesh B. Lakshminarayana, Jaekyu Lee and Jinwoo Shin
 - *IEEE Computer Architecture Letters*, 11(2):33-36, 2012
- [J18] Counting Independent Sets Using the Bethe Approximation
- Venkat Chandrasekaran, Michael Chertkov, David Gamarnik, Devavrat Shah and Jinwoo Shin
 - *SIAM Journal on Discrete Mathematics*, 25:1012-1034, 2011
- [J19] Distributed Random Access Algorithm: Scheduling and Congestion Control
- Libin Jiang, Devavrat Shah, Jean Walrand and Jinwoo Shin
 - *IEEE Transactions on Information Theory*, 56(12):6182–6207, 2010
- [J20] Distributed averaging via lifted Markov chains
- Kyomin Jung, Devavrat Shah and Jinwoo Shin
 - *IEEE Transactions on Information Theory*, 56(1):634–647, 2010

CONFERENCE (only peer-reviewed conference papers listed excluding invited, workshop or non-reviewed ones)

- [C1] Hierarchical Novelty Detection for Visual Object Recognition
- Kibok Lee, Kimin Lee, Kyle Min, Yuting Zhang, Jinwoo Shin and Honglak Lee
 - *IEEE CVPR 2018*
- [C2] Training Confidence-Calibrated Classifiers for Detecting Out-of-Distribution Samples
- Kimin Lee, Honglak Lee, Kibok Lee and Jinwoo Shin
 - *ICLR 2018*
- [C3] Gauged Mini-Bucket Elimination for Approximate Inference
- Sungsoo Ahn, Michael Chertkov, Jinwoo Shin and Adrian Weller
 - *AISTATS 2018*
- [C4] Multi-armed Bandit with Additional Observations
- Donggyu Yun, Sumyeong Ahn, Alexandre Proutiere, Jinwoo Shin and Yung Yi
 - *ACM SIGMETRICS 2018*
- [C5] Gauging Variational Inference
- Sungsoo Ahn, Michael Chertkov, and Jinwoo Shin
 - *NIPS 2017*
- [C6] Faster Greedy MAP Inference for Determinantal Point Processes
- Insu Han, Prabhanjan Kambadur, Kyoungsoo Park and Jinwoo Shin
 - *ICML 2017*
- [C7] Confident Multiple Choice Learning
- Kimin Lee, Changho Hwang, Kyoungsoo Park and Jinwoo Shin

– **ICML 2017**

[C8] Adiabatic Persistent Contrastive Divergence Learning

– Hyeryung Jang, Hyungwon Choi, Yung Yi and Jinwoo Shin

– **IEEE ISIT 2017**

[C9] Rapid Mixing Swendsen-Wang Sampler for Stochastic Partitioned Attractive Models

– Sejun Park, Yunhun Jang, Andreas Galanis, Jinwoo Shin, Daniel Stefankovic and Eric Vigoda

– **AISTATS 2017**

[C10] Incentivizing Strategic Users for Social Diffusion: Quantity or Quality?

– Jungseul Ok, Jinwoo Shin and Yung Yi

– **IEEE INFOCOM 2017**

[C11] Rumor Source Detection under Querying with Untruthful Answers

– Jaeyoung Choi, Sangwoo Moon, Jiin Woo, KyunHwan Son, Jinwoo Shin and Yung Yi

– **IEEE INFOCOM 2017**

[C12] Synthesis of MCMC and Belief Propagation

– Sungsoo Ahn, Michael Chertkov and Jinwoo Shin

– **NIPS 2016**

– **Oral Presentation (acceptance ratio: 1.8%)**

[C13] Optimality of Belief Propagation for Crowdsourced Classification

– Jungseul Ok, Sewoong Oh, Jinwoo Shin and Yung Yi

– **ICML 2016**

[C14] Rumor Source Detection: Power of Querying

– Sangwoo Moon, Jaeyoung Choi, Jinwoo Shin and Yung Yi

– **NETSCI 2016**

[C15] Rumor Source Detection: Power of Protector

– Jaeyoung Choi, Sangwoo Moon, Jinwoo Shin and Yung Yi

– **NETSCI 2016**

[C16] Distributed Coordination Maximization over Networks: A Stochastic Approximation Approach

– Hyeryung Jang, Se-Young Yun, Jinwoo Shin and Yung Yi

– **ACM MOBIHOC 2016**

[C17] Just-in-time WLANs: On-demand Interference-managed WLAN Infrastructures

– Kimin Lee, Yeonkun Kim, Seokhyun Kim, Jinwoo Shin, Seungwon Shin and Song Chong

– **IEEE INFOCOM 2016**

[C18] Minimum Weight Perfect Matching via Blossom Belief Propagation

– Sungsoo Ahn, Sejun Park, Michael Chertkov and Jinwoo Shin

– **NIPS 2015**

– **Spotlight Presentation (acceptance ratio: 4%)**

[C19] Practical Message-passing Framework for Large-scale Combinatorial Optimization

– Inho Cho, Soya Park, Sejun Park, Dongsu Han and Jinwoo Shin

– **IEEE BigData 2015**

[C20] Max-Product Belief Propagation for Linear Programming: Applications to Combinatorial Optimization

– Sejun Park and Jinwoo Shin

– **UAI 2015**

- [C21] Large-scale Log-determinant Computation through Stochastic Chebyshev Expansions
– Insu Han, Dmitry Malioutov and Jinwoo Shin
– **ICML 2015**
- [C22] On the Progressive Spread over Strategic Diffusion: Asymptotic and Computation
– Jungseul Ok, Jinwoo Shin and Yung Yi
– **IEEE INFOCOM 2015**
- [C23] On Maximizing the Diffusion Speed in Social Networks: Impact of Random Seeding and Clustering
– Jungseul Ok, Youngmi Jin, Jinwoo Shin and Yung Yi
– **ACM SIGMETRICS 2014**
- [C24] Scheduling using Interactive Oracles: Connection between Iterative Optimization and Low-complexity Scheduling
– Jinwoo Shin and Tonghoon Suk
– **ACM SIGMETRICS 2014** (short paper)
- [C25] Distributed Learning for Utility Maximization over CSMA-based Wireless Multi-hop Networks
– Hyeryung Jang, Se-Young Yun, Jinwoo Shin and Yung Yi
– **IEEE INFOCOM 2014**
- [C26] Provable Per-Link Delay-Optimal CSMA for General Wireless Network Topology
– Dongmyung Yun, Donggyu Lee, Jinwoo Shin, Yung Yi and Se-Young Yun
– **IEEE INFOCOM 2014**
- [C27] A Graphical Transformation for Belief Propagation: Maximum Weight Matchings and Odd-Sized Cycles
– Jinwoo Shin, Andrew Gelfand and Michael Chertkov
– **NIPS 2013**
- [C28] CSMA over Time-varying Channels: Optimality, Uniqueness and Limited Backoff Rate
– Se-Young Yun, Jinwoo Shin and Yung Yi
– **ACM MOBIHOC 2013**
– **Best Paper Award**
- [C29] Loop Calculus and Bootstrap-Belief Propagation for Perfect Matchings on Arbitrary Graphs
– Michael Chertkov, Andrew Gelfand and Jinwoo Shin
– **Journal of Physics: Conference Series, 473 012007, 2013**
- [C30] Belief Propagation for Linear Programming
– Andrew Gelfand, Jinwoo Shin and Michael Chertkov
– **IEEE ISIT 2013**
- [C31] CSMA using Bethe Approximation for Utility Optimization
– Se-Young Yun, Jinwoo Shin and Yung Yi
– **IEEE ISIT 2013**
- [C32] Hybrid Client-Server and Peer-to-Peer Caching Systems with Selfish Peers
– Youngmi Jin, Yung Yi, George Kesidis, Fatih Kocak and Jinwoo Shin
– **IEEE INFOCOM 2013**
- [C33] Minimally Invasive Mechanism Design: Distributed Covering with Carefully Chosen Advice
– Maria-Florina Balcan, Sara Krehbiel, Georgios Piliouras and Jinwoo Shin
– **IEEE CDC 2012**
- [C34] Complexity of Bethe Approximation
– Jinwoo Shin

– *AISTATS 2012*

[C35] Improved Mixing Condition on the Grid for Counting and Sampling Independent Sets

– Ricardo Restrepo, Jinwoo Shin, Prasad Tetali, Eric Vigoda and Linji Yang

– *IEEE FOCS 2011*

[C36] Medium Access using Queues

– Devavrat Shah, Jinwoo Shin and Prasad Tetali

– *IEEE FOCS 2011*

[C37] Dynamics in Congestion Games

– Devavrat Shah and Jinwoo Shin

– *ACM SIGMETRICS 2010*

[C38] Delay Optimal Queue-based CSMA

– Devavrat Shah and Jinwoo Shin

– *ACM SIGMETRICS 2010* (short paper)

[C39] Network Adiabatic Theorem: An Efficient Randomized Protocol for Contention Resolution

– Shreevatsa Rajagopalan, Devavrat Shah and Jinwoo Shin

– *ACM SIGMETRICS 2009*

– *Kenneth C. Sevcik Outstanding Student Paper Award*

OTHERS (invited, workshop or non-reviewed papers)

[O1] Training Confidence-Calibrated Classifiers for Detecting Out-of-Distribution Samples

– Kimin Lee, Honglak Lee, Kibok Lee and Jinwoo Shin

– *NIPS Workshop on Bayesian Deep Learning (BDL) 2017* (peer-reviewed workshop)

[O2] Optimality of Belief Propagation for Crowdsourced Classification

– Jungseul Ok, Sewoong Oh, Jinwoo Shin and Yung Yi

– *NIPS Workshop on Crowdsourcing and Machine Learning (CrowdML) 2016* (invited workshop)

[O3] Estimating the Rumor Source with Anti-Rumor in Social Networks

– Jaeyoung Choi, Sangwoo Moon, Jinwoo Shin and Yung Yi

– *NetworkML 2016* (peer-reviewed workshop)

[O4] Influence Maximization over Strategic Diffusion in Social Networks

– Jungseul Ok, Jaeyoung Choi, Youngmi Jin, Jinwoo Shin and Yung Yi

– *CISS 2014* (invited conference)

[O5] On the Impact of Global Information on Diffusion of Innovations over Social Networks

– Youngmi Jin, Jungseul Ok, Yung Yi and Jinwoo Shin

– *IEEE NETSCICOM 2013* (peer-reviewed workshop)

[O6] Loop Calculus and Bootstrap-Belief Propagation for Perfect Matchings on Arbitrary Graphs

– Michael Chertkov, Andrew Gelfand and Jinwoo Shin

– *ICSG 2013* (invited conference)

[O7] Optimal CSMA: A Survey

– Se-Young Yun, Yung Yi, Jinwoo Shin and Do-Young Eun

– *IEEE ICCS 2012* (invited conference)

[O8] Dynamics in Symmetric Potential Games

- Devavrat Shah and Jinwoo Shin
- *Allerton Conference 2009* (invited conference)

[O9] Fast and Slim Lifted Markov Chains

- Kyomin Jung, Devavrat Shah and Jinwoo Shin
- *Allerton Conference 2007* (invited conference)

PROFESSIONAL SERVICES

Conference Program Committee

- NIPS (2017, 2018)
- ICML (2018)
- UAI (2018)
- ICC (2018)
- AAAI (2016, 2017, 2018)
- INFOCOM (2016, 2017)
- MOBIHOC (2011, 2014, 2016, 2018)
- SIGMETRICS (2015, 2016)
- WIOPT (2015, 2016)
- INFORMS Meeting (2015, 2016)

Industry Technical Advisor

- AIZEN (2017, 2018)
- IGLOO SECURITY (2017)
- I-SENS (2017, 2018)
- KAKAO BRAIN (2017, 2018)
- NAVER Clova AI Research (2017)
- STAYGE Labs (2018)
- QISENS (2017, 2018)
- XBRAIN (2016, 2017, 2018)

Journal Associated Editor

- IEEE/ACM Transactions on Networking (since 2016)
- ACM Modeling and Performance Evaluation of Computing Systems (since 2017)

Journal Reviewer (since 2010)

- Journal of the ACM
- Annals of Applied Probability
- IEEE Transactions on Information Theory
- IEEE Transactions on Signal Processing
- IEEE Transactions on Networking
- IEEE Transactions on Wireless Communications
- IEEE Transactions on Automatic Control
- IEEE Transactions on Mobile Computing
- Mathematics of Operations Research
- Operations Research
- Queueing Systems
- Journal of Theoretical Probability
- Performance Evaluation
- Internet Mathematics
- Computer Communications
- Computers and Mathematics with Applications

SELECTED INVITED TALKS

- Physics Informed Machine Learning, Santa Fe, USA (Jan 2018)
- Allerton Conference invited talk, IL, USA (Sep 2017)
- Korea Institute for Advanced Study, Seoul, Korea (July 2017)
- MOBIHOC tutorial, India (Jul 2017)
- Allerton Conference invited talk, IL, USA (Sep 2016)
- Los Alamos National Laboratory, NM, USA (Aug 2016)
- KAIST CS Colloquium, Daejeon, Korea (May 2016)
- WIOPT invited talk, Arizona, USA (May 2016)
- Physics Informed Machine Learning, Santa Fe, USA (Jan 2016)

- KAIST Math Colloquium, Daejeon, Korea (Nov 2015)
- IEEE Information Theory Workshop, Jeju, Korea (Oct 2015)
- ACM SIGMETRICS award talk, Portland, USA (Jun 2015)
- IMA Workshop on Graphical Models, Statistical Inference, and Algorithms, Minnesota, USA (May 2015)
- DGIST ICE Colloquium, Daegu, Korea (May 2015)
- Banff Workshop for Large-Scale Interacting Networks, Canada (Feb 2013)
- ITA Workshop, USA (Feb 2012, 2013)
- UCSD ECE, USA (Feb 2012)
- Texas A&M University ECE, USA (Feb 2012)
- Bell Laboratories, Alcatel-Lucent, Murray Hill, USA (Jan 2012)
- IBM T. J. Watson Research, Yorktown, USA (Jan 2012)
- Princeton University, USA (Nov 2011)
- INFORMS Applied Society Conference (Jul 2009, 2011)
- Emory University, USA (May 2011)
- INFORMS Annual Meeting, Texas, USA (Nov 2010)
- Operations Research Seminar, Georgia Institute of Technology (Oct 2010)
- University of Pennsylvania, USA (Mar 2010)
- ARC Colloquium, Georgia Institute of Technology, USA (Feb 2010)
- Allerton Conference, USA (Oct 2009, 2010)
- Combinatorics Seminar, Georgia Institute of Technology, USA (Sep 2009)
- Workshop for Physics of Algorithms, Santa Fe, USA (Sep 2009)
- International Conference on Acoustics, Speech, and Signal Processing, Taiwan (Apr 2009)
- DIMACS Workshop for Message-Passing Algorithms, Rutgers University, USA (Oct 2008)
- Northeast Control Workshop, University of Maryland, College Park, USA (Apr 2008)

REFERENCES

Available upon request