

# Siddhartha Banerjee

Assistant Professor  
School of Operations Research and Information Engineering  
Cornell University  
<http://www.people.orie.cornell.edu/sbanerjee/>

229 Rhodes Hall  
136 Hoy Road  
Ithaca, NY 14853  
[sbanerjee@cornell.edu](mailto:sbanerjee@cornell.edu)

RESEARCH INTERESTS *Stochastic modeling and design of scalable algorithms and mechanisms* for large systems.  
In particular, my work spans across the following areas:

**Data-Driven Decision-Making and Control** - Stochastic control, online algorithms, reinforcement learning.

**Pricing, Markets and Social Computing** - game theory and mechanism design; pricing and revenue management; transportation systems.

**Learning and Optimization on Networks** - large-scale network algorithms; recommender systems; epidemic processes; queueing theory.

CURRENT POSITION **Cornell University:** Ithaca, NY, July 2015 - Present  
Assistant Professor: [School of Operations Research and Information Engineering](#).  
Field Member: Computer Science, Center for Applied Mathematics, Electrical and Computer Engineering.

PRIOR POSITIONS **Stanford University:** Stanford, CA, August 2013 - June 2015  
Postdoctoral Researcher, [Social Algorithms Lab \(SOAL\)](#).

EDUCATION **The University of Texas at Austin**, Austin, TX, September 2007 - July 2013.  
PhD. in Electrical and Computer Engineering, July 2013  
Department of Electrical and Computer Engineering  
Thesis: [Controlling Complex Information Flows in Networks](#)  
**Indian Institute of Technology Madras**, Chennai, India, 2003 - July 2007.  
Bachelor's in Electrical Engineering, July 2007.

INDUSTRY EXPERIENCE Technical consultant at **Lyft**, San Francisco, CA, Aug - Nov 2014, Jun - Dec 2018.  
Involved in developing and testing early iterations of Lyft's primetime pricing algorithms.  
Research intern at **Technicolor Paris Research Lab**: Paris, France, Summer 2011.  
Research intern at **Bell Labs, Alcatel-Lucent**: Murray Hill, NJ, Summer 2009.

HONORS *NSF CAREER Award*, 2019  
*INFORMS APS Undergraduate Student Paper Prize winner*: Siddharth Reddy (UG advisee) for *Unbounded Human Learning: Optimal Scheduling for Spaced Repetition*, 2017  
*INFORMS APS Student Paper Prize finalist*: Daniel Freund and Thodoris Lykouris (Graduate collaborators) for *Pricing and Optimization in Shared Vehicle Systems*, 2017  
*WNCG Student Leadership Award*, UT Austin, 2013.  
*Governor's Gold Medal, Institute Silver Medal*, IIT Madras, 2007.

PUBLICATIONS Google Scholar profile: [Siddhartha Banerjee](#). For preprints, see [my research page](#).

◇ **Book Chapters and Invited Articles** (4)

**Ridesharing**

Siddhartha Banerjee, Ramesh Johari.

In *Sharing Economy: Making Supply Meet Demand*, M. Hu (Ed.), *Springer Series in Supply Chain Management*, 2019.

**Segmenting Two-Sided Markets**

Siddhartha Banerjee, Srinivas Gollapudi, Kostas Kollias, Kamesh Munagala.

*ACM SIGecom Exchanges*, 2017.

**Dynamic pricing in ridesharing platforms**

Siddhartha Banerjee, Ramesh Johari, Carlos Riquelme.

*ACM SIGecom Exchanges*, 2016.

**The Importance of Exploration in Online Marketplaces**

Siddhartha Banerjee, Ramesh Johari, Zhengyuan Zhou.

*IEEE Internet Computing*, 2016.

◇ **Journal Publications** (14)

**Online Allocation and Pricing: Constant Regret via Bellman Inequalities**

Alberto Vera, Siddhartha Banerjee, Itai Gurvich.

*Operations Research*, 2020.

**Adaptive Discretization for Episodic Reinforcement Learning in Metric Spaces**

Sean Sinclair, Siddhartha Banerjee, Christina Lee Yu.

*ACM Measurement and Analysis of Computing Systems (ACM POMACS)*, 2020.

(Invited based on acceptance to *ACM SIGMETRICS '20*, June 2020.)

**Predict and Match: Prophet Inequalities with Uncertain Supply**

Reza Alijani, Siddhartha Banerjee, Sreenivas Gollapudi, Kamesh Munagala, Kangning Wang.

In *ACM Measurement and Analysis of Computing Systems (ACM POMACS)*, 2020.

(Invited based on acceptance to *ACM SIGMETRICS '20*, June 2020.)

**The Bayesian Prophet: A Low-Regret Framework for Online Decision Making**

Alberto Vera, Siddhartha Banerjee.

*Management Science*, 2020.

(Earlier version presented at *ACM SIGMETRICS '19*.)

**Non-Monetary Mechanism Design via Artificial Currencies**

Artur Gorokh, Siddhartha Banerjee, Krishnamurthy Iyer.

*Mathematics of Operations Research*, 2020.

(Combines results from **From Monetary to Non-Monetary Mechanism Design via Artificial Currencies** in *ACM EC '17*, and **Near-Efficient Allocation in Repeated Settings** in *Web and Internet Economics (WINE '16)*.)

**The Segmentation-Thickness Tradeoff in Online Marketplaces**

Reza Alijani, Siddhartha Banerjee, S. Gollapudi, Kostas Kollias, Kamesh Munagala.

*ACM Measurement and Analysis of Computing Systems (ACM POMACS)*, 2019.

(Invited based on acceptance to *ACM SIGMETRICS '19*.)

**The Price of Fragmentation in Mobility-on-Demand Services**

Thibault Séjourné, Samitha Samaranayake, Siddhartha Banerjee.  
*ACM Measurement and Analysis of Computing Systems (ACM POMACS)*, 2018.  
(Invited based on acceptance to *ACM SIGMETRICS '18*.)

**Online Collaborative Filtering on Graphs**

Siddhartha Banerjee, Sujay Sanghavi, Sanjay Shakkottai.  
*Operations Research*, 2016.

**The Price of Privacy in Untrusted Recommendation Engines**

Siddhartha Banerjee, Nidhi Hegde, Laurent Massoulié.  
*IEEE Journal of Selected Topics in Signal Processing (Special Issue on Privacy)*, 2015.  
(Earlier version in *Allerton '12*.)

**Epidemic Spreading with External Agents**

Siddhartha Banerjee, Aditya Gopalan, Abhik Das, and Sanjay Shakkottai.  
*IEEE Transactions on Information Theory*, 2014.  
(Earlier version in *IEEE INFOCOM '11*.)

**Towards a Queueing-Based Framework for In-Network Function Computation**

Siddhartha Banerjee, Piyush Gupta, Sanjay Shakkottai.  
*Queueing Systems - Theory and Applications (QUESTA)*, 2012.  
(Earlier version in *ISIT '11*.)

**Wireless Scheduling with Heterogeneous Delayed Network-State Information**

Aneesh Reddy, Siddhartha Banerjee, Aditya Gopalan, Sanjay Shakkottai, Lei Ying.  
*Queueing Systems - Theory and Applications (QUESTA)*, 2012.  
(Earlier version in *Allerton '10*.)

**Optimal Feedback Allocation For Cellular Uplink: Theory and Algorithms**

Harish Ganapathy, Siddhartha Banerjee, Ned Dimitrov, Constantine Caramanis.  
*IEEE Transactions on Signal Processing*, 2012.  
(Earlier version in *Allerton '09*.)

**Greedy Sensor Selection: Leveraging Submodularity**

Manohar Shamaiah, Siddhartha Banerjee, Haris Vikalo.  
*IEEE Wireless Communications Letters*, 2012.  
(Earlier version in *IEEE CDC '10*.)

◇ **Refereed Conference Publications (31)**

**Uniform Loss Algorithms for Online Stochastic Decision-Making With Applications to Bin Packing**

Siddhartha Banerjee, Daniel Freund.  
In *ACM SIGMETRICS'20*, July 2020.

**Adaptive Discretization for Episodic Reinforcement Learning in Metric Spaces**

Sean Sinclair, Siddhartha Banerjee, Christina Lee Yu.  
In *ACM SIGMETRICS '20*, July 2020.

**Predict and Match: Prophet Inequalities with Uncertain Supply**

Reza Alijani, Siddhartha Banerjee, Sreenivas Gollapudi, Kamesh Munagala, Kangning Wang.  
In *ACM SIGMETRICS '20*, July 2020.

**The Bayesian Prophet: A Low-Regret Framework for Online Decision Making**

Alberto Vera, Siddhartha Banerjee.

In *ACM SIGMETRICS '19*, July 2019.

**The Segmentation-Thickness Tradeoff in Online Marketplaces**

Reza Alijani, Siddhartha Banerjee, S. Gollapudi, Kostas Kollias, Kamesh Munagala.

In *ACM SIGMETRICS '19*, July 2019.

**Information Signal Design for Incentivizing Team Formation**

Chamsi Hssaine, Siddhartha Banerjee.

In *Web and Internet Economics (WINE '18)*, December 2018.

**The Price of Fragmentation in Mobility-on-Demand Services**

Thibault Séjourné, Samitha Samaranayake, Siddhartha Banerjee.

In *ACM SIGMETRICS '18*, July 2018.

**The Value of State Dependent Control in Ride-sharing Systems**

Siddhartha Banerjee, Yash Kanora, Pengyu Qian.

In *ACM SIGMETRICS '18*, July 2018.

**Pricing and Optimization in Shared Vehicle Systems**

Siddhartha Banerjee, Daniel Freund, Thodoris Lykouris.

In *ACM EC '17*, June 2017.

**INFORMS APS Student Paper competition finalist, 2017.**

**From Monetary to Non-Monetary Mechanism Design via Artificial Currencies**

Artur Gorokh, Siddhartha Banerjee, Krishnamurthy Iyer.

In *ACM EC '17*, June 2017.

**Segmenting Two-Sided Markets**

Siddhartha Banerjee, Srinivas Gollapudi, Kostas Kollias, Kamesh Munagala.

In *World Wide Web Conference (WWW '17)*, April 2017.

**Near-Efficient Allocation in Repeated Settings**

Artur Gorokh, Siddhartha Banerjee, Krishnamurthy Iyer.

In *Web and Internet Economics (WINE '16)*, December 2016.

**Sublinear Estimation of a Single Element in Sparse Linear Systems**

Nitin Shyamkumar, Siddhartha Banerjee, Peter Lofgren.

In *Allerton '16*, October 2016.

**Unbounded Human Learning: Optimal Scheduling for Spaced Repetition**

Siddharth Reddy, Igor Labutov, Siddhartha Banerjee, Thorsten Joachims.

In *ACM SIGKDD '16*, August 2016.

**INFORMS Undergraduate Student Paper Award, 2017.**

**Network Formation of Coalition Loyalty Programs**

Arpit Goel, Vijay Kamble, Siddhartha Banerjee, Ashish Goel.

In *NetEcon '16*, June 2016.

**Personalized PageRank Estimation and Search: A Bidirectional Approach**

Peter Lofgren, Siddhartha Banerjee, Ashish Goel.

In *ACM WSDM '16*, February 2016.

**Bidirectional PageRank Estimation: From Average-Case to Worst-Case**

Peter Lofgren, Siddhartha Banerjee, Ashish Goel.

In *WAW '15*, December 2015.

**Fast Bidirectional Probability Estimation in Markov Models**

Siddhartha Banerjee, Peter Lofgren.  
In *NIPS '15*, December 2015.

**Pricing in Ride-Share Platforms: A Queueing-Theoretic Approach**

Siddhartha Banerjee, Ramesh Johari, Carlos Riquelme.  
In *ACM EC '15*, June 2015.

**The Importance of Exploration in Online Marketplaces**

Siddhartha Banerjee, Ramesh Johari, Zhengyuan Zhou.  
In *IEEE CDC '14*, December 2014.

**Re-incentivizing Discovery: Mechanisms for Progress Sharing in Research**

S. Banerjee, A. Goel, A. Krishnaswamy.  
In *ACM EC '14*, June 2014.

**FAST-PPR: Scaling Personalized PageRank Estimation for Large Graphs**

Peter Lofgren, Siddhartha Banerjee, Ashish Goel, C. Seshadri.  
In *ACM SIGKDD '14*, August 2014.

**The Behavior of Epidemics under Bounded Susceptibility**

Subhashini Krishnasamy, Siddhartha Banerjee, Sanjay Shakkottai.  
In *ACM SIGMETRICS '14*, June 2014.

**Epidemic Thresholds with External Agents**

Siddhartha Banerjee, Avhishek Chatterjee, Sanjay Shakkottai.  
In *IEEE INFOCOM '14*, April 2014.

**The Price of Privacy in Untrusted Recommendation Engines**

Siddhartha Banerjee, Nidhi Hegde, Laurent Massoulié.  
In *Allerton '12*, October 2012.

**Epidemic Spreading with External Agents**

Siddhartha Banerjee, Aditya Gopalan, Abhik Das, and Sanjay Shakkottai.  
In *IEEE INFOCOM '11*, April 2011.

**Towards a Queueing-Based Framework for In-Network Function Computation**

Siddhartha Banerjee, Piyush Gupta, Sanjay Shakkottai.  
In *ISIT '11*, July 2011.

**Greedy Learning of Markov Network Structure**

Praneeth Netrapalli, Siddhartha Banerjee, Sujay Sanghavi, Sanjay Shakkottai.  
In *Allerton '10*, October 2010.

**Wireless Scheduling with Heterogeneous Delayed Network-State Information**

Aneesh Reddy, Siddhartha Banerjee, Aditya Gopalan, Sanjay Shakkottai, Lei Ying.  
In *Allerton '10*, October 2010.

**Greedy Sensor Selection: Leveraging Submodularity**

Manohar Shamaiah, Siddhartha Banerjee, Haris Vikalo.  
In *IEEE CDC '10*, December 2010.

**Optimal Feedback Allocation For Cellular Uplink: Theory and Algorithms**

Harish Ganapathy, Siddhartha Banerjee, Ned Dimitrov, Constantine Caramanis.  
In *Allerton '09*, October 2009.

◇ **Preprints (9)**

**Online Nash Social Welfare Maximization via Promised Utilities**

Siddhartha Banerjee, Vasilis Gkatzelis, Artur Gorokh, Billy Jin.  
Under submission, 2020.

**The Limits of an Information Intermediary in Auction Design**

Reza Alijani, Siddhartha Banerjee, Kamesh Munagala, Kangning Wang.  
Under submission, 2020.

**Adaptive Discretization for Model-Based Reinforcement Learning**

Sean Sinclair, Tianyu Wang, Gauri Jain, Siddhartha Banerjee, Christina Lee Yu.  
Under submission, 2020.

**Threshold Tests as Quality Signals: Optimal Strategies, Equilibria, and Price of Anarchy**

Siddhartha Banerjee, David Kempe, Robert Kleinberg.  
Working paper, 2020.

**Satisficing Search and Algorithmic Price Competition**

Chamsi Hssaine, Siddhartha Banerjee, Vijay Kamble.  
Working paper, 2020. Available at [https://ssrn.com/abstract\\_id=3544350](https://ssrn.com/abstract_id=3544350).

**Scrip Economies are (Approximately) Fair and Efficient**

Artur Gorokh, Siddhartha Banerjee, Krishnamurthy Iyer.  
Under submission, 2019. Available at [https://ssrn.com/abstract\\_id=3411444](https://ssrn.com/abstract_id=3411444)

**A Pricing Framework for the Mobility Marketplace**

Chamsi Hssaine, Raga Gopalakrishnan, Siddhartha Banerjee, Samitha Samaranayake.  
Working paper, 2019.

**The Power and Limits of Collusion-Resilient Mechanism Design**

Artur Gorokh, Siddhartha Banerjee, Krishnamurthy Iyer.  
Under submission, 2018. Available at [https://ssrn.com/abstract\\_id=3125003](https://ssrn.com/abstract_id=3125003)

**Computing Constrained Shortest-Paths at Scale**

Alberto Vera, Siddhartha Banerjee, Samitha Samaranayake.  
Under submission, 2018.

GRANTS

- ◇ *CNS-1955997*: Resource Constrained Reinforcement Learning for Computing Systems, co-PI, *National Science Foundation (NSF)*, July 2020 - July 2024 (\$1,200,000)
- ◇ *ECCS-1847393*: CAREER: Harnessing Prediction Engines and Non-Monetary Mechanisms for Real-Time Decision Making, PI, *National Science Foundation (NSF)*, March 2019 - February 2024 (\$500,549)
- ◇ *Engaged Cornell Grant*: Engaging Industry in Applied Mathematics, co-PI, *Engaged Cornell*, June 2019 - June 2020 (\$80,000)
- ◇ *DMS-1839346*: The Future of the Road - A Data-Driven Redesign of the Urban Transit Ecosystem, PI, *National Science Foundation (NSF)*, Oct 2018 - Oct 2020 (\$425,000)
- ◇ *Engaged Cornell Grant*: Applied Mathematics in Action, co-PI, *Engaged Cornell*, June 2018 - June 2019 (\$20,000)
- ◇ *W911NF-17-1-0094*: Operations and the Sharing Economy: Mechanisms for On-Demand Resource Sharing, PI, *Army Research Laboratory (ARL)*, July 2017 - July 2020 (\$399,659)

- PROFESSIONAL SERVICE    *Publications Chair*: SIGMETRICS 2017  
*Workshop Chair*: IFIP Performance 2017  
*TPC Member*: SIGMETRICS 2020, 2019, 2018, 2016; EC 2020, 2019, 2018, 2017, 2016, NetEcon 2020, 2019, 2018, 2017, IFIP Performance 2020, 2019, 2018, 2017.  
*Prize Committee*: Nicholson Prize 2020, 2019.  
*Journal Reviewer*: Math of OR, Operations Research, Management Science, QUESTA, IEEE Trans. Networking, Trans. Mobile Computing, Trans. Signal Processing.  
*Organizer*: Cornell ORIE Colloquium (2015-2018)  
RAIN seminar series at Stanford (2013 - 2015)  
WNCG Seminar (2012 - 2013), WNCG student seminar (2009 - 2012) at UT Austin.
- TEACHING EXPERIENCE    **ORIE 4742, Information Theory & Bayesian Machine Learning**: Spring 2020.  
**ORIE 6500, Introduction to Stochastic Processes**: Fall 2019.  
**ORIE 4580, Simulation Modeling & Analysis**: Fall 2017, Fall 2018.  
**ORIE 4154, Pricing and Market Design**: Spring 2017.  
**ORIE 6154, Revenue Management**: Fall 2016.  
**ORIE 6180, Online Decision-Making & Market Design**: Spring 2016, Spring 2019.  
**ORIE 4520, Stochastics at Scale**: Fall 2015.  
**MS&E 221, Stochastic Modeling**: Teaching Assistant, Stanford, Spring 2016.
- ADVISING EXPERIENCE    ◇ **Postdoctoral Researchers**  
**Ragavendran Gopalakrishnan**, 2017-2019  
Jointly supervised with Samitha Samaranyake  
Started at Smith School of Business, Queens College as Assistant Professor (2019)  
**Qi Luo**, 2020  
Jointly supervised with Samitha Samaranyake  
Starting at Clemson University IE as Assistant Professor (2021)
- ◇ **PhD Advisees (graduated)**  
**Artur Gorokh**, Cornell CAM, 2015-2020  
Thesis: *Fairness and Efficiency in Online Allocation of Goods*  
Jointly supervised with Kris Iyer  
Joined Facebook as Research Scientist (2020)  
**Alberto Vera**, Cornell ORIE, 2015-2020  
Thesis: *Real-Time Network Optimization: Practical Algorithms with Provable Guarantees*  
Joined Amazon as Research Scientist (2020)
- ◇ **PhD Advisees (current)**  
**Chamsi Hssaine**, Cornell ORIE, 2016-  
**Sean Sinclair**, Cornell ORIE, 2018-  
Jointly supervised with Christina Lee Yu  
**Matthew Eichhorn**, Cornell CAM, 2019-  
**Spencer Peters**, Cornell CS, 2019-  
Jointly supervised with Joe Halpern  
**Jack Wang**, Cornell CS, 2019-  
Received the NDSEG Graduate Fellowship, 2020

◇ **PhD Student Thesis Committees**

**Reza Alijani**, 2020, Duke CS, Advisor: Kamesh Munagala  
**Faisal Alkaabneh**, 2020, Cornell Systems Engineering, Advisor: Oliver Gao  
**Yingjie Fei**, 2020, Cornell ORIE, Advisor: Yudong Chen  
**Daniel Vial**, 2020, Michigan EECS, Advisor: Vijay Subramanian  
**Thodoris Lykouris**, 2019, Cornell CS, Advisor: Eva Tardos  
**David Lingenbrink**, 2019, Cornell ORIE, Advisor: Kris Iyer  
**Pu Yang**, 2019, Cornell ORIE, Advisor: Kris Iyer & Peter Frazier  
**Venus Lo**, 2019, Cornell ORIE, Advisor: Husseyin Topaloglu  
**Yang Liu**, 2019, Cornell CEE, Advisor: Samitha Samaranyake  
**Zhen Tan**, 2018, Cornell CEE, Advisor: Oliver Gao

◇ **Undergraduate Collaborators**

**Gauri Jain**, 2020, Cornell CS. Software Engineer at Facebook  
**Clare Snyder**, 2019, Cornell IS. Graduate student at Ross School of Business, University of Michigan  
**Xiang (Felix) Fu**, 2019, Cornell CS. Graduate student at MIT EECS  
**Noemie Perivier**, 2019, Ecole Polytechnique. Graduate student at Columbia DRO  
**Thibault Séjourné**, 2018, Ecole Polytechnique. Graduate student at ENS Paris  
**Nitin Shyamkumar**, 2017, Cornell CS. Graduate student at NYU Courant  
**Siddharth Reddy**, 2017, Cornell CS. Graduate student at EECS, UC Berkeley

INVITED  
TALKS

*Constant Regret Algorithms for Online Decision-Making*  
– Foundations of Data Science ML Seminar, University of Texas at Austin, Austin TX, May 2020

*Constant Regret Algorithms for Online Decision-Making*  
– Industrial & Operations Engineering Department Seminar, University of Michigan, Philadelphia PA, March 2020

*Constant Regret Algorithms for Online Decision-Making*  
– UPenn Theory Seminar, University of Pennsylvania, Philadelphia PA, February 2020

*Uniform-loss Algorithms for Constrained Online Decision-Making*  
– MSR ML Seminar, Microsoft Research New York, New York NY, December 2019

*The Unreasonable Effectiveness of Artificial Currencies*  
– Workshop on Platform Markets, Simons Institute Program on Online and Matching-Based Market Design, Berkeley CA, September 2019

*Designing the Multi-Modal Transit Marketplace*  
– NSF Workshop on Control for Networked Transportation Systems, Philadelphia PA, July 2019

*Ridesharing: The Road Ahead*  
– Real-Time Decision Making Reunion Workshop, Simons Institute for the Theory of Computing, Berkeley CA, June 2019

*The Unreasonable Effectiveness of Artificial Currencies*  
– Institute for Mathematical Behavioral Sciences (IMBS) Seminar, University of California Irvine, Irvine CA, May 2019



*Online Decision-Making Using Prediction Oracles*

– Communications and Signal Processing Seminar, Michigan EECS, Michigan University, Ann Arbor MI, April 2019

*Trace-Driven Online Decision-Making*

– Conference on Information Sciences and Systems (CISS 2019), Johns Hopkins University, Baltimore MD, March 2019

*Online Decision-Making Using Prediction Oracles*

– Quantitative Methods Seminar, Krannert School of Business, Purdue University, West Lafayette IN, October 2018

*Designing Decentralized Markets: Artificial Currencies and Collusion Resilience*

– Workshop on Marketplace Innovation, June 2018

*A Bayesian Approach to Online Resource Allocation*

– Workshop on Mathematical and Computational Challenges in Real-Time Decision Making, Simons Institute Program on Real-Time Decision Making, Berkeley CA, May 2018

*Allocating Resources, in the Future*

– RAIN Seminar series, Stanford University, Palo Alto CA, April 2018

– BLISS Seminar, UC Berkeley, Berkeley CA, April 2018

– IEOR-DRO Joint Seminar, Columbia University, New York City NY, April 2018

*The Rideshare Dispatch Problem*

– Societal Networks Workshop, Simons Institute Program on Real-Time Decision Making, Berkeley CA, March 2018

*The Rideshare Dispatch Problem*

– Societal Networks Workshop, Simons Institute Program on Real-Time Decision Making, Berkeley CA, January 2018

*Ridesharing*

– Bootcamp Workshop, Simons Institute Program on Real-Time Decision Making, Berkeley CA, January 2018

*Pricing in Dynamic Two-Sided Markets*

– 55th Annual Allerton Conference, Urbana-Champaign IL, October 2017

*Personalization, for everyone*

– Texas Wireless Summit, UT Austin, Austin TX, October 2017

*The Power of Bidirectional Estimators*

– Los Alamos National Laboratories, Los Alamos NM, June 2017

– Stanford University ISL Colloquium, Stanford University, Palo Alto CA, February 2016

*Pricing and Optimization in Shared Vehicle Systems*

– Mostly OM Workshop, Beijing, China, May 2017

– NII Workshop on Optimization under Uncertainty, Shonan, Japan, May 2017

– Department Seminar at Georgia Tech ISYE, Atlanta GA, December 2016

*Dynamic Pricing in Rideshare Platforms*

– Simons Institute Workshop on Real-Time Decision Making, Berkeley CA, June 2016

– Duke University CS-Econ Colloquium, Durham NC, April 2016

*What Money Can't Buy - Beyond Pricing in Online Marketplaces*

– Cornell CS Theory Seminar, Ithaca NY, November 2016

*Sublinear Estimation of a Single Element in Sparse Linear Systems*

– 54th Annual Allerton Conference, Urbana-Champaign IL, October 2016

*Siddhartha Banerjee*

*Fast Bidirectional Estimation in Markov Chains*

- Cornell CAM Colloquium, Ithaca Ny, September 2015
- Indian Institute of Science, Bangalore, India, July 2015
- WNCG Seminar Series at UT Austin, Austin TX, May 2015

*New Models and Mechanisms for Online Platforms*

- Baskin School of Engineering at UC Santa Cruz, Santa Cruz CA, February 2015
- NYU Stern IOMS Seminar, New York City NY, January 2015
- Cornell ORIE Department Seminar, Ithaca NY, January 2015
- MEDS Department Seminar at Kellogg, Evanston IL, December 2014