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Academic Positions Held	<p>The Chinese University of Hong Kong (CUHK), Shatin, Hong Kong Assistant Professor, Dept. of SE&EM, Dec. 2018 — Present</p> <p>Arizona State University (ASU), Tempe, AZ, USA Postdoctoral Scholar, Jan. 2018 — Nov., 2018</p> <ul style="list-style-type: none"> • Host: Prof. Anna Scaglione and Prof. Angelia Nedić <p>Massachusetts Institute of Technology (MIT), Cambridge, MA, USA Visiting Scholar, LIDS, May, 2017 — Aug., 2017 and June, 2018 — Nov., 2018</p> <ul style="list-style-type: none"> • Host: Prof. Asuman E. Ozdaglar <p>Télécom ParisTech (ENST), Paris, France Visiting Student, TSI/STA group, May, 2015 — Oct., 2015</p> <ul style="list-style-type: none"> • Host: Prof. Eric Moulines <p>École Polytechnique, Palaiseau, France Visiting Scholar, CMAP, April, 2018 — June, 2018</p> <ul style="list-style-type: none"> • Host: Prof. Eric Moulines 	
Education	<p>Arizona State University (ASU), Tempe, AZ, USA PhD in Electrical Engineering, Dec., 2017</p> <ul style="list-style-type: none"> • Dissertation Topic: “New and Provable Results for Network Inference Problems and Multi-agent Optimization Algorithms” • Enrolled in University of California, Davis (UC Davis) from Sept., 2013 to Dec., 2014. • Advisor: Prof. Anna Scaglione <p>The Chinese University of Hong Kong (CUHK), Shatin, Hong Kong M. Phil in Electronic Engineering, Sept., 2012</p> <ul style="list-style-type: none"> • Advisor: Prof. Wing-kin (Ken) Ma <p>B. Eng in Electronic Engineering, June, 2010 (<i>with first class honour</i>)</p>	
Honors & Awards (selected)	<p>Best student paper award at IEEE ICASSP 2018 Dean’s Dissertation Award, Ira A. Fulton Schools of Engineering, ASU, 2017 Best paper award finalist at IEEE SAM 2014, IEEE SAM Workshop, 2014 Sir Edward Youde Memorial Scholarship, 2008</p>	
Invited Talks	<p><i>Low Pass Graph Signal Processing: Modeling Data, Inference, and Beyond</i> Plenary Talk at GSP Workshop 2023 June, 2023.</p> <p><i>Stochastic Approximation with Decision-dependent Data</i> Data Science and Signal Processing Group Seminar at URJC Apr, 2023. Department of ECE, CornellTech Dec, 2022. IORA Seminar at National University of Singapore May, 2022.</p> <p><i>Panelist: Data Science Education from a Signal Processing Perspective</i> IEEE ICASSP 2022 May, 2022.</p>	

<i>User Guide to Low Pass Graph Signal Processing - Applications and Beyond</i>	School of Mathematics, Sichuan University	Nov., 2022.
	CS Colloquium, University of Massachusetts Lowell	Dec, 2021.
<i>Decentralized learning in the nonconvex world: Recent results</i>	Zhejiang University-CSE Summer School 2021	August, 2021.
<i>Panelist: Future of Graph Signal Processing</i>	APSIPA US Local Chapter	July, 2021.
<i>Efficient algorithms for Reinforcement Learning with nonlinear function approximation</i>	3rd IMA and OR Society Conference on Mathematics of Operational Research	April, 2021.
<i>Linear Two-timescale Stochastic Approximation: Tight Analysis with Markovian Noise</i>	RL Theory Online Seminar	June, 2020.
<i>Non-asymptotic Analysis for Biased Stochastic Approximation Scheme</i>	Engineering Systems and Design, Singapore University of Technology and Design	Nov., 2019.
	Department of EECS, Oregon State University	Oct., 2019.
	Laboratory for Information and Decision Systems, MIT	June, 2019.
<i>Distributed Incremental Methods for Finite-sum Optimization Problems</i>	School of CS, University of Science and Technology of China	April, 2019.
	Department of EE, National Tsinghua University	Jan, 2019.
<i>Inferring Features of the Graph Topology without the Topology</i>	Plenary Talk at Annual Telecom Meeting, Taichung, Taiwan	Jan, 2019.
<i>Identifying latent network structures embedded in high-dimensional data — challenges and solutions</i>	Department of EE, University of Minnesota	April, 2018.
	Department of CIE, Shenzhen University	November, 2017.
	Department of SEEM, CUHK	August, 2017.
<i>First-order Optimization Methods for Large-scale Problems</i>	CMAP, École Polytechnique	June, 2018.
	EECS Colloquium, Oregon State University	Jan, 2018.

Professional Activities

Member of the Data Science Initiative, IEEE Signal Processing Society (07/2020–present)
Elected Member of the Signal Processing Theory and Method Technical Committee (SPTM-TC), IEEE Signal Processing Society (01/2024–present)
Special Track Co-chair, IEEE International Conference on Autonomous Systems (ICAS) 2021.
Associate Editor: <i>IEEE Transactions on Signal and Information Processing over Networks</i> , Elsevier's <i>Signal Processing</i>
Area Chair: <i>AISTATS 2023, 2024, NeurIPS 2024</i> .
Organizer: <i>One World Signal Processing Seminar Series, Data sciEnce on GrAphS Seminar Series</i> .

Journal Publications

[J23] C.-Y. Yau, H.-T. Wai , “DoCoM: Compressed Decentralized Optimization with Near-Optimal Sample Complexity”, <i>Transactions on Machine Learning Research</i> , 2023.
[J22] A. Dieuleveut*, G. Fort*, E. Moulines*, H.-T. Wai* , “Stochastic Approximation Beyond Gradient for Signal Processing and Machine Learning”, <i>IEEE Transactions on Signal Processing (Overview</i>

Paper), 2023.

[J21] Y. He, **H.-T. Wai**, "Online Inference for Mixture Model of Streaming Graph Signals with Sparse Excitation", IEEE Transactions on Signal Processing, 2023.

[J20] M. Hong*, **H.-T. Wai***, Z. Yang*, Z. Wang*, "A two-timescale framework for bilevel optimization: Complexity analysis and application to actor-critic", SIAM Journal on Optimization, 2023.

[J19] B. Turan, C. A. Uribe, **H.-T. Wai**, M. Alizadeh, "Robust Distributed Optimization With Randomly Corrupted Gradients", IEEE Transactions on Signal Processing, 2022.

[J18] Y. He, **H.-T. Wai**, "Detecting central nodes from low-rank excited graph signals via structured factor analysis", IEEE Transactions on Signal Processing, 2022.

[J17] **H.-T. Wai**, Y. C. Eldar, A. E. Ozdaglar, A. Scaglione, "Community Inference from Partially Observed Graph Signals: Algorithms and Analysis", IEEE Transactions on Signal Processing, 2022.

[J16] B. Turan, C. A. Uribe, **H.-T. Wai**, M. Alizadeh, "Resilient Primal-Dual Optimization Algorithms for Distributed Resource Allocation", IEEE Transactions on Control of Networked Systems, 2020.

[J15] T. M., Roddenberry, M. T. Schaub, **H.-T. Wai**, S. Segarra, "Exact blind community detection from signals on multiple graphs", IEEE Transactions on Signal Processing, 2020.

[J14] X. Fu, S. Ibrahim **H.-T. Wai**, C. Gao and K. Huang, "Block-Randomized Stochastic Proximal Gradient for Low-Rank Tensor Factorization", IEEE Transactions on Signal Processing, 2020.

[J13] **H.-T. Wai**, W. Shi, C. A. Uribe, A. Nedić and A. Scaglione, "Accelerating Incremental Gradient Optimization with Curvature Information", Computational Optimization and Applications, 2020.

[J12] R. Wu, **H.-T. Wai**, and W.-K. Ma, "Hybrid Inexact BCD for Coupled Structured Matrix Factorization in Hyperspectral Super-Resolution", IEEE Transactions on Signal Processing, 2020.

[J11] **H.-T. Wai**, S. Segarra, A. E. Ozdaglar, A. Scaglione and A. Jadbabaie, "Blind Community Detection from Low Rank Excitations of a Graph Filter", IEEE Transactions on Signal Processing, 2019.

[J10] **H.-T. Wai**, A. Scaglione, B. Barzel and A. Leshem, "Joint Network Topology and Dynamics Recovery From Perturbed Stationary Points", IEEE Transactions on Signal Processing, 2019.

[J9] S.-X. Wu, **H.-T. Wai** and A. Scaglione, "Estimating Social Opinion Dynamics Models from Voting Records", IEEE Transactions on Signal Processing, 2018.

[J8] M. Alizadeh, **H.-T. Wai**, A. Goldsmith and A. Scaglione, "Retail and Wholesale Electricity Pricing Considering Electric Vehicle Mobility", IEEE Transaction on Control of Networked Systems, 2018.

[J7] **H.-T. Wai**, J. Lafond, A. Scaglione and E. Moulines, "Decentralized Frank-Wolfe Algorithm for Convex and Non-convex Optimization", IEEE Transactions on Automatic Control, Nov., 2017.

[J6] R. Gentz, S.-X. Wu, **H.-T. Wai**, A. Scaglione and A. Leshem, "Data injection attacks in randomized gossiping", IEEE Transactions on Signal and Information Processing over Networks, Dec., 2016.

[J5] M. Alizadeh, **H.-T. Wai**, M. Chowdhury, A. Scaglione, A. Goldsmith, and T. Javidi, "Optimal Pricing to Manage Electric Vehicles in Coupled Power and Transportation Networks", IEEE Transaction on Control of Networked Systems, Dec., 2017.

[J4] **H.-T. Wai**, Q. Li and W.-K. Ma, "Discrete Sum Rate Maximization for MISO Interference Broadcast Channels: Convex Approximations and Efficient Algorithms", IEEE Transaction on Signal Processing, Aug., 2016.

[J3] **H.-T. Wai**, A. Scaglione and A. Leshem, "Active Sensing of Social Networks", IEEE Transactions on Signal and Information Processing over Networks, Sept., 2016.

[J2] **H.-T. Wai** and A. Scaglione, "Consensus on State and Time: Decentralized Regression with Asynchronous Sampling", IEEE Transaction on Signal Processing, June, 2015.

[J1] Q. Li, M. Hong, **H.-T. Wai**, W.-K. Ma, Y.-F. Liu, and Z.-Q. Luo, “*Transmit Solutions for MIMO Wiretap Channels using Alternating Optimization and Water-Filling*”, IEEE Journal on Selected Areas in Communications, vol. 31, no. 9, pp. 1714-1727, Sept. 2013.

Book Chapters,
Magazine Papers

[B6] S. Gannot, Z.-H. Tan, M. Haardt, N. F. Chan, **H.-T. Wai**, I. Tashev, W. Kellermann, J. Dauwels, “Data Science Education: The Signal Processing Perspective”, IEEE Signal Processing Magazine, 2023.

[B5] R. Ramakrishna, **H.-T. Wai**, A. Scaglione, “A User Guide to Low-pass Graph Signal Processing”, IEEE Signal Processing Magazine, Nov., 2020.

[B4] T.-H. Chang, M. Hong, **H.-T. Wai**, X. Zhang and S. Lu “*Distributed Learning in the Non-Convex World: From Batch to Streaming Data, and Beyond*”, IEEE Signal Processing Magazine, May, 2020.

[B3] S.-X. Wu, **H.-T. Wai**, L. Li, and A. Scaglione, “A Review of Distributed Algorithms for Principal Component Analysis”, in Proceedings of the IEEE, 2018.

[B2] **H.-T. Wai**, A. Scaglione and E. Moulines, contributed book chapter, “*Methods for decentralized signal processing with Big Data*”, chapter in Cooperative and Graph Signal Processing, edited by Petar Djuric and Cedric Richard, Elsevier, June, 2018.

[B1] **H.-T. Wai**, A. Scaglione and A. Leshem, contributed book chapter, “*Active Sensing of Social Networks: Network Identification from Low Rank Data*”, chapter in Cooperative and Graph Signal Processing, edited by Petar Djuric and Cedric Richard, Elsevier, June, 2018.

CS Conference
Publications
(*equal contribution)

[D20] X. Wang, C.-Y. Yau, **H.-T. Wai**, “Network Effects on Performative Prediction Games”, in ICML 2023.

[D19] X. Wang, Y. Jiao, **H.-T. Wai**, Y. Gu, “Incremental Aggregated Riemannian Gradient Method for Distributed PCA”, in AISTATS 2023.

[D18] Q. Li, C.-Y. Yau, **H.-T. Wai**, “*Multi-agent Performative Prediction with Greedy Deployment and Consensus Seeking Agents*”, in NeurIPS 2022.

[D17] B. Song, I. Tsaknakis, C.-Y. Yau, **H.-T. Wai**, M. Hong, “*Distributed Optimization for Overparameterized Problems: Achieving Optimal Dimension Independent Communication Complexity*”, in NeurIPS 2022.

[D16] B. Liu, J. Li, Z. Yang, **H.-T. Wai**, M. Hong, Y. Nie, Z. Wang, “*Inducing Equilibria via Incentives: Simultaneous Design-and-Play Ensures Global Convergence*”, in NeurIPS 2022.

[D15] P. Khanduri, H. Yang, M. Hong, J. Liu, **H.-T. Wai**, S. Liu, “*Decentralized Learning for Overparameterized Problems: A Multi-Agent Kernel Approximation Approach*”, in ICLR 2022.

[D14] Q. Li, **H.-T. Wai**, “*State Dependent Performative Prediction with Stochastic Approximation*”, in AISTATS 2022.

[D13] B. Karimi*, **H.-T. Wai***, E. Moulines, “*MISSO: Minimization by Incremental Stochastic Surrogate Optimization for Large Scale Nonconvex Problems*”, in ALT 2022.

[D12] A. Durmus*, E. Moulines*, A. Naumov*, S. Samsonov*, K. Scaman*, **H.-T. Wai***, “*Tight High Probability Bounds for Linear Stochastic Approximation with Fixed Stepsize*”, in NeurIPS 2021.

[D11] P. Khanduri, S. Zeng, M. Hong, **H.-T. Wai**, Z. Wang, Z. Yang, “*A near-optimal algorithm for stochastic bilevel optimization via double-momentum*”, in NeurIPS 2021.

[D10] A. Durmus*, E. Moulines*, A. Naumov*, S. Samsonov*, **H.-T. Wai***, “*On the stability of random matrix product with Markovian noise: Application to linear stochastic approximation and TD learning*”, in COLT 2021.

[D9] R. Wu, A. Scaglione, **H.-T. Wai**, N. Karakoc, K. Hreinsson, W.-K. Ma, “*Federated Block Coordinate Descent Scheme for Learning Global and Personalized Models*”, in AAAI 2021.

[D8] **H.-T. Wai**, Z. Yang, Z. Wang, M. Hong, “*Provably Efficient Neural GTD for Off-Policy Learning*”, in

NeurIPS 2020.

[D7] G. Fort*, E. Moulines*, **H.-T. Wai***, “A Stochastic Path Integral Differential Estimator Expectation Maximization Algorithm”, in NeurIPS 2020.

[D6] M. Kaledin*, E. Moulines*, A. Naumov*, V. Tadic*, **H.-T. Wai***, “Finite time analysis of linear two-timescale stochastic approximation with Markovian noise”, in COLT 2020.

[D5] B. Karimi*, **H.-T. Wai***, E. Moulines and M. Lavielle, “On the Global Convergence of (Fast) Incremental Expectation Maximization Methods”, in NeurIPS 2019.

[D4] **H.-T. Wai**, Z. Yang, Z. Wang, M. Hong and X. Tang, “Variance Reduced Policy Evaluation with Smooth Function Approximation”, in NeurIPS 2019.

[D3] B. Karimi*, B. Miasojedow*, E. Moulines* and **H.-T. Wai***, “Non-asymptotic Analysis of Biased Stochastic Approximation Scheme”, in COLT 2019. (* equal contribution, Acceptance rate: $\sim 30\%$)

[D2] G. Robin, **H.-T. Wai**, J. Josse, O. Klopp and E. Moulines, “Low-rank Interaction with Sparse Additive Effects Model for Large Data Frames”, in NeurIPS 2018. (**Spotlight**, Acceptance rate: $\sim 4\%$)

[D1] **H.-T. Wai**, Z. Yang, Z. Wang and M. Hong, “Multi-Agent Reinforcement Learning via Double Averaging Primal-Dual Optimization”, in NeurIPS 2018. (Acceptance rate: $\sim 20\%$)

Signal Processing /
Control Conference
Publications
(*equal contribution)

[C49] C.-Y. Yau, **H.-T. Wai**, “Fully Stochastic Distributed Convex Optimization on Time-Varying Graph with Compression”, in IEEE CDC 2023.

[C48] X. Wang, J. Cheng, **H.-T. Wai**, Y. Gu, “Linear Speedup of Incremental Aggregated Gradient Methods on Streaming Data”, in IEEE CDC 2023.

[C47] C. Zhang, Y. He and **H.-T. Wai**, “Product Graph Learning from Multi-attribute Graph Signals with Inter-layer Coupling”, in IEEE ICASSP 2023.

[C46] Y. He and **H.-T. Wai**, “Central Nodes Detection from Partially Observed Graph Signals”, in IEEE ICASSP 2023.

[C45] Q. Li and **H.-T. Wai**, “On the Role of Data Homogeneity in Multi-Agent Non-convex Stochastic Optimization”, in IEEE CDC 2022.

[C44] Y. Huang, J. Xu, W. Meng and **H.-T. Wai**, “Stochastic Gradient Tracking Methods for Distributed Personalized Optimization over Networks”, in IEEE CDC 2022.

[C43] H.-S. Nguyen, Y. He and **H.-T. Wai**, “On the Stability of Low Pass Graph Filter With a Large Number of Edge Rewires”, in IEEE ICASSP 2022.

[C42] Y. He and **H.-T. Wai**, “Joint Centrality Estimation and Graph Identification from Mixture of Low Pass Graph Signals”, in IEEE ICASSP 2022.

[C41] A. Ashok Rao, **H.-T. Wai**, “An Empirical Study on Compressed Decentralized Stochastic Gradient Algorithms with Overparameterized Models”, in APSIPA 2021.

[C40] B. Turan, C.A. Uribe, **H.-T. Wai**, M. Alizadeh, “On Robustness of the Normalized Random Block Coordinate Method for Non-Convex Optimization”, in CDC 2021.

[C39] B. Turan, C.A. Uribe, **H.-T. Wai**, M. Alizadeh, “On Robustness of the Normalized Subgradient method with Randomly Corrupted Subgradients”, in ACC 2021.

[C38] G. Fort*, E. Moulines*, and **H.-T. Wai***, “Geom-SPIDER-EM: Faster Variance Reduced Stochastic Expectation Maximization for Nonconvex Finite-Sum Optimization”, in ICASSP 2021.

[C37] Y. He and **H.-T. Wai**, “Provably Fast Asynchronous And Distributed Algorithms For Pagerank Centrality Computation”, in IEEE ICASSP 2021.

[C36] Y. He and **H.-T. Wai**, “Identifying First-Order Lowpass Graph Signals Using Perron Frobenius

Theorem”, in IEEE ICASSP 2021.

[C35] **H.-T. Wai**, “*On the Convergence of Biased Decentralized Stochastic Approximation Scheme*”, accepted by IEEE CDC 2020.

[C34] Y. He and **H.-T. Wai**, “*Estimating Centrality Blindly from Low-pass Filtered Graph Signals*”, in IEEE ICASSP 2020.

[C33] C. A. Uribe*, **H.-T. Wai*** and M. Alizadeh, “*Resilient Distributed Optimization Algorithms for Resource Allocation*”, in IEEE CDC 2019. (* equal contribution)

[C32] X. Fu, C. Gao, **H.-T. Wai**, and K. Huang, “*Block-randomized stochastic proximal gradient for constrained low-rank tensor factorization*”, in IEEE ICASSP 2019.

[C31] M. T. Schaub*, S. Segarra*, and **H.-T. Wai***, “*Spectral partitioning of time-varying networks with unobserved edges*”, in IEEE ICASSP 2019. (* Equal contributions)

[C30] **H.-T. Wai**, Y. C. Eldar, A. E. Ozdaglar and A. Scaglione, “*Community Inference from Graph Signals with Hidden Nodes*”, in IEEE ICASSP 2019.

[C29] **H.-T. Wai**, N. Freris, A. Nedić and A. Scaglione, “*SUCAG: Stochastic Unbiased Curvature-aided Gradient Method for Distributed Optimization*”, Invited paper, accepted by IEEE CDC 2018.

[C28] N. Raviv, R. Ramakrishna, **H.-T. Wai** and A. Scaglione, “*Network Inference and its Application to the Estimation of Crowd Dynamics from IoT Sensors*”, accepted by IEEE SPAWC 2018, to appear.

[C27] G. Li, S.-X. Wu, S. Zhang, **H.-T. Wai** and A. Scaglione, “*Detecting and Localizing Adversarial Nodes Using Neural Networks*”, accepted by IEEE SPAWC 2018, to appear.

[C26] **H.-T. Wai**, A. Scaglione, B. Barzel and A. Leshem, “*Network inference from complex systems steady states observations: theory and methods*”, accepted by IEEE DSW 2018, to appear.

[C25] **H.-T. Wai**, S. Segarra, A. E. Ozdaglar, A. Scaglione and A. Jadbabaie, “*Community Detection from Low Rank Excitations of a Graph Filter*”, in Proc. ICASSP 2018. (**Best student paper**)

[C24] **H.-T. Wai**, A. E. Ozdaglar and A. Scaglione, “*Identifying Susceptible Agents in Time Varying Opinion Dynamics through Compressive Measurements*”, in Proc. ICASSP 2018.

[C23] R. Wu, C. H. Chan, **H.-T. Wai**, W.-K. Ma and X. Fu, “*HI, BCD! Hybrid Inexact Block Coordinate Descent for Hyperspectral Super-resolution*”, in Proc. ICASSP 2018.

[C22] S.-X. Wu, **H.-T. Wai**, A. Scaglione, A. Nedić and A. Leshem, “*Data Injection Attack on Decentralized Optimization*”, in Proc. ICASSP 2018.

[C21] **H.-T. Wai**, W. Shi, A. Nedić and A. Scaglione, “*Curvature-aided Incremental Aggregated Gradient Method*”, Invited paper, Allerton Conference, Oct. 2017.

[C20] M. Alizadeh, **H.-T. Wai**, A. Goldsmith, and A. Scaglione, “*Marginal Charging Station Pricing in an Intelligent Electric Transportation System*”, in Proc. ACC 2017.

[C19] **H.-T. Wai**, A. Scaglione, J. Lafond and E. Moulines, “*Fast and Privacy Preserving Distributed Low Rank Regression*”, in Proc. ICASSP 2017.

[C18] S.-X. Wu, **H.-T. Wai**, A. Scaglione and N. Jacklin, “*The Power-Oja Method for Decentralized Subspace Estimation/Tracking*”, in Proc. ICASSP 2017.

[C17] J. Lafond*, **H.-T. Wai*** and E. Moulines, “*Non-convex Optimization with Frank-Wolfe Algorithm and Its Variants*”, in *NIPS 2016 Workshop on Nonconvex Optimization for Machine Learning: Theory and Practice*. (* equal contribution)

[C16] S.-X. Wu, **H.-T. Wai** and A. Scaglione, “*Data Mining the Underlying Trust in the US Congress*”, in Proc. GlobalSIP 2016.

[C15] **H.-T. Wai**, A. Scaglione, J. Lafond and E. Moulines, “*A Projection-free Decentralized Algorithm*”

for Non-convex Optimization”, in Proc. GlobalSIP 2016.

[C14] M. Alizadeh, **H.-T. Wai**, A. Goldsmith, and A. Scaglione, “Optimal Electricity Pricing for Societal Infrastructure Systems”, in Proc. 50th HICSS Conference.

[C13] J. Lafond*, **H.-T. Wai*** and E. Moulines, “D-FW: Communication Efficient Distributed Algorithms for High-dimensional Sparse Optimization”, in Proc. ICASSP 2016. (* equal contribution)

[C12] **H.-T. Wai**, A. Scaglione and A. Leshem, “Active Online Learning of Trusts in Social Networks”, in Proc. ICASSP 2016.

[C11] **H.-T. Wai**, A. Scaglione and A. Leshem, “Identifying trust in social networks with stubborn agents, with application to market decisions”, Invited paper, Allerton Conference, Oct. 2015.

[C10] **H.-T. Wai**, A. Scaglione and A. Leshem, “The Social System Identification Problem”, in Proc. IEEE CDC 2015, Dec., 2015.

[C9] R. Gentz, **H.-T. Wai**, A. Scaglione and A. Leshem, “Detection of data injection attacks in decentralized learning”, Invited paper, Asilomar Conf. 2015, Nov., 2015.

[C8] **H.-T. Wai**, T.-H. Chang and A. Scaglione, “A Consensus-based Decentralized Algorithm for Non-convex Optimization with Application to Dictionary Learning”, IEEE ICASSP 2015, Apr., 2015.

[C7] **H.-T. Wai** and A. Scaglione, “Decentralized Regression Under Asynchronous sub-Nyquist Sampling”, Invited paper, Asilomar Conf. 2014, Nov., 2014.

[C6] M. Alizadeh, **H.-T. Wai**, A. Scaglione, A. Goldsmith, Y. Fan, and T. Javidi, “Optimized Path Planning for Electric Vehicle Routing and Charging”, Invited paper, Allerton Conference, Oct. 2014.

[C5] **H.-T. Wai** and A. Scaglione, “State Estimation with Sampling Offsets in Wide Area Measurements Systems”, in Proc. IEEE SAM 2014, A Coruna, Spain, June 22-26, 2014.

[C4] **H.-T. Wai**, Q. Li, and W.-K. Ma, “A convex approximation method for multiuser MISO sum rate maximization under discrete rate constraints,” in Proc. ICASSP 2013, Vancouver, Canada, May 26-31, 2013.

[C3] Q. Li, M. Hong, **H.-T. Wai**, W.-K. Ma, Y.-F. Liu, and Z.-Q. Luo, “An alternating optimization algorithm for the MIMO secrecy capacity problem under sum power and per-antenna power constraints,” in Proc. ICASSP 2013, Vancouver, Canada, May 26-31, 2013.

[C2] **H.-T. Wai** and W.-K. Ma, “A Decentralized Method for Joint Admission Control and Beamforming in Coordinated Multicell Downlink,” in Proc. Asilomar Conf. 2012. Pacific Grove, CA, Nov. 4-7, 2012. [Online]. Available: <http://arxiv.org/abs/1211.4665>

[C1] **H.-T. Wai**, W.-K. Ma, and A. M.-C. So. “Cheap semidefinite relaxation MIMO detection using row-by-row block coordinate descent,” in Proc. ICASSP 2011, pp. 3256-3259, Prague, Czech Republic, May 22-27, 2011.