



## Journal Reviewing

- Neurocomputing, 2021
- INFORMS Journal on Optimization (IJO), 2021
- IEEE Transactions on Signal Processing (TSP), 2019
- Operations Research, 2018
- IEEE Transactions on Control of Network Systems (TCNS), 2018
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2017
- Journal of Machine Learning Research (JMLR), 2016, 2017, 2021
- IEEE Transactions on Robotics, 2017
- Journal of Artificial Intelligence Research (JAIR), 2016, 2019
- Machine Learning (MLJ), 2016
- Artificial Intelligence (AIJ), 2016
- IEEE Transactions on Multimedia (TMM), 2015
- Statistics and Computing (STCO), 2015
- Algorithmica, 2015, 2016

## Conference Reviewing

- International Conference on Artificial Intelligence and Statistics (AISTATS) 2019, 2020
- AAAI Conference on Artificial Intelligence (AAAI) 2018, 2019, 2020
- International Conference on Machine Learning (ICML) 2015, 2016, 2017, 2018 (outstanding reviewer)
- Neural Information Processing Systems (NeurIPS) 2013, 2014, 2015, 2016, 2019
- International Joint Conference on Artificial Intelligence (IJCAI) 2016
- Latin American Theoretical Informatics (LATIN) 2014
- Medical Image Computing and Computer Assisted Intervention (MICCAI) 2014
- Knowledge Discovery and Data Mining (KDD) 2014

## OTHER SERVICES

### Summer School/Workshop Organization and Coordination

- “AI + measurements” joint webinar/workshop: Partnering to Advance AI Research & Development, Joint with UChicago, Fermilab & Argonne 2020-2021
- Caltech AI4Science Inaugural Workshop 2018, 2019
- Inaugural Summer School of the joint ETH/MPI Research Network on Learning Systems 2014

## TEACHING

### Instructor at UChicago

- STAT 37710 / CAAM 37710 / CMSC 35400, *Machine Learning* Spring 2022
- CMSC 25400 / STAT 27725 / CAAM 27725, *Machine Learning* Winter 2022
- CMSC 25400 / STAT 27725 / CAAM 27725, *Machine Learning* Spring 2021
- STAT 37710 / CAAM 37710 / CMSC 35400, *Machine Learning* Winter 2021
- CMSC 35401-1, *Topics in Machine Learning: Interactive Learning Systems* Winter 2021
- STAT 37710 / CMSC 35400, Co-taught with Prof. Rebecca Willett, *Machine Learning* Spring 2020
- CMSC 35401-2, *Topics in Machine Learning: Interactive Learning Systems* Winter 2020

## ADVISING

### PhD Students

- Ziyu Ye (09/2020-), *active*
- Chaoqi Wang (01/2021-), *active*
- Fengxue Zhang (09/2021-), *active*
- Zixin Ding (01/2022-), *active*

### Master Students

- Noame Qin (UChicago *MCAM thesis project*, Summer 2022)
- Jiaona Ma (UChicago *MPCS practicum*, Spring 2020)
- Hank Zhang (UChicago *MPCS practicum*, Winter 2020)
- Zifeng Kang (UChicago *MPCS practicum*, Winter 2020)
- Kaustubh Vinchure (UChicago *MPCS practicum*, Winter 2020)
- Shihan Su (Caltech *M.Sc. semester project*, 2017)
- Siddhartha (ETHZ *M.Sc thesis / semester project*, 09/2015 – 05/2016)
- Johannes Kirschner (ETHZ *semester project & M.Sc thesis*, Spring & Fall 2015)

- Victor Carbune (ETHZ *M.Sc thesis*, 04/2013 – 10/2013)
- Hiroaki Shioi (ETHZ *M.Sc thesis*, 09/2012 – 02/2013)
- César Antonio Fuentes Montesinos (ETHZ *M.Sc thesis*, 04/2012 – 10/2012)
- Nan Zhong (ETHZ *M.Sc thesis*, Spring 2012)

#### Undergraduate & High-school Students

- Tony (Zejie) Zhu (UChicago), *active*
- Zhongnian Tao (UChicago, Spring 2022)
- Fangjian (Roy) Wu (UChicago, 2021)
- Chinmaya Mahesh (UIUC; UChicago *CDAC summer lab*, 2020-2021)
- Jiaqi Han (Tsinghua University; UChicago *student summer research fellowship program*, 2020)
- Dongwei Xiao (Zhejiang University; UChicago *student summer research fellowship program*, 2020)
- Yair Atlas (UChicago *CDAC summer lab*, 2020)
- Louise Fan (UChicago *undergraduate project*, Winter 2020)
- Emily Jin (Caltech *high-school student volunteer*, Summer 2018, 2019)
- Nikhil Gohsh (Caltech *summer undergraduate research program*, Summer & Fall 2018)
- Ayya Alieva (Caltech *undergraduate semester project*, Spring 2018, 2019)

#### THESIS COMMITTEE

#### Current Internal Students at UChicago (excluding own students)

- Yibo Jiang (PhD student, Computer Science)
- Hwanwoo Kim (PhD student, Computational and Applied Mathematics)
- Xuefeng Liu (PhD student, Computer Science)
- Renyu Zhang (PhD student; *MS thesis defense*, 2020)
- Emily Wenger (PhD student; *MS thesis defense*, 2020; *PhD candidacy exam*, 06/2022)
- Truong Son Hy (PhD student; *PhD candidacy exam*, 02/2022; *PhD thesis defense*, 05/2022)
- Horace Pan (PhD student; *MS thesis defense*, 2020; *PhD candidacy exam*, 12/2021; *PhD thesis defense*, 05/2022)
- Lang Yu (PhD student; *PhD candidacy exam*, 2020; *PhD thesis defense*, 04/2021)

#### External Students

- Jack Humphreys, *Recent Progress in Appearance-based Action Recognition*. MPhil thesis, University of Sydney, 2020.
- Jingwei Zhang, *Generalization in Deep Learning: Two Theoretical View Points*, MPhil thesis, University of Sydney, 2019

#### INVITED TALKS

#### Near-Optimal Bayesian Active Learning and Adaptive Information Acquisition: Submodular Surrogates and Beyond

- *University of Chicago (Computational and Applied Mathematics Colloquium)* (2/2022)

#### Optimizing Decision Making via Submodular Surrogates

- *Special Session on Sequencing, Sequential Decision Making, and Scheduling at ISAIM*, 1/2022
- *Microsoft Research, New England* (12/2020)
- *University of Southern California* (11/2020)

#### Algorithmic Aspects of Machine Teaching: Tractability, Interpretability, and Robustness

- *Chalmers University of Technology* (10/2020)
- *Statistics Colloquium, UChicago* (05/2020)

#### Teaching Multiple Concepts to Forgetful Learners

- *Optimizing Human Learning (Workshop eliciting Adaptive Sequences for Learning (WASL))* (07/2020)

#### Bayesian Experimental Design in the Physical Sciences

- *Argonne National Laboratory* (01/2020)
- *MLPWS4: Using Physical Insights for Machine Learning, IPAM, UCLA* (11/2019)
- *Toyota Technological Institute at Chicago (TTIC) Colloquium* (11/2019)

#### Interactive Learning and Decision Making with Machines and People

- *Pacific Investment Management Company, LLC (PIMCO)* (04/2019)

- *Purdue University* (04/2019)
- *New York University, Tandon School of Engineering (NYU Tandon)* (03/2019)
- *Institute of Science and Technology Austria (IST Austria)* (03/2019)
- *University of Waterloo* (02/2019)
- *Duke University* (02/2019)
- *University of North Carolina, Chapel Hill* (02/2019)
- *University of Chicago* (02/2019)
- *Rensselaer Polytechnic Institute* (02/2019)
- *University of California, Santa Barbara* (01/2019)
- *Nanyang Technological University* (01/2019)
- *Delft University of Technology (TU Delft)* (01/2019)
- *Chalmers University of Technology* (11/2018)
- *National University of Singapore* (11/2018)

Near-optimal Adaptive Information Acquisition: Theory and Applications

- *California Institute of Technology* (04/2017)
- *Allen Institute for Artificial Intelligence* (07/2016)
- *Microsoft Research Lab, Redmond* (07/2016)

Sequential Information Gathering With Correlated Tests

- *XRCE seminar, Xerox Research Centre Europe* (06/2016)

Active Detection via Adaptive Submodularity

- *SLI group seminar, Massachusetts Institute of Technology* (02/2014)

SOFTWARE &  
TOOLS

Machine Teaching for Forgetful Human Learners.

- Teaching biodiversity
- Teaching German vocabulary

<https://www.teaching-biodiversity.cc/>  
<https://www.teaching-german.cc/>

CONFERENCE  
PUBLICATIONS

- (1) **Yuxin Chen**, Morteza Haghir Chehreghani. Trip Prediction by Leveraging Trip Histories from Neighboring Users. In the *25th IEEE International Conference on Intelligent Transportation Systems (ITSC)*, October 2022.
- (2) Jamar L. Sullivan Jr., Will Brackenbury, Andrew McNutt, Kevin Bryson, Kwam Byll, **Yuxin Chen**, Michael L. Littman, Chenhao Tan, Blase Ur. Explaining Why: How Instructions and User Interfaces Impact Annotator Rationales When Labeling Text Data. In the *North American Chapter of the Association for Computational Linguistics (NAACL)*, July 2022.
- (3) Chaoqi Wang, Adish Singla, **Yuxin Chen**. Teaching an Active Learner with Contrastive Examples . In the *35nd Conference on Neural Information Processing Systems (NeurIPS)*, December 2021.
- (4) Akash Kumar, **Yuxin Chen**, Adish Singla. Teaching via Best-Case Counterexamples in the Learning-with-Equivalence-Queries Paradigm . In the *35nd Conference on Neural Information Processing Systems (NeurIPS)*, December 2021.
- (5) Ziyu Ye, **Yuxin Chen**, Haitao Zheng. Understanding the Effect of Bias in Deep Anomaly Detection. In the *International Joint Conference on Artificial Intelligence (IJCAI)*, August 2021 (virtual).
- (6) Ayya Alieva, Aiden Aceves, Jialin Song, Stephen Mayo, Yisong Yue, **Yuxin Chen**. Learning to Make Decisions via Submodular Regularization. In the *International Conference on Learning Representations (ICLR)*, May 2021 (virtual).
- (7) Akash Kumar, Hanqi Zhang, Adish Singla, **Yuxin Chen**. The Teaching Dimension of Kernel Perceptron. In the *24th International Conference on Artificial Intelligence and Statistics (AISTATS)*, April 2021 (virtual).
- (8) Zhe Xu, **Yuxin Chen**, Ufuk Topcu. Adaptive Teaching of Temporal Logic Formulas to Learners with Preferences. In the *35th AAAI Conference on Artificial Intelligence (AAAI)*, February 2021 (virtual).
- (9) Rati Devidze, Farnam Mansouri, Luis Haug, **Yuxin Chen**, Adish Singla. Understanding the Power and Limitations of Teaching with Imperfect Knowledge. *International Joint Conference on Artificial Intelligence (IJCAI)*, Yokohama, Japan, July 2020 (virtual).

- (10) Niklas Akerblom, **Yuxin Chen**, Morteza Haghir Chehreghani. An Online Learning Framework for Energy-Efficient Navigation of Electric Vehicles. In the *International Joint Conference on Artificial Intelligence (IJCAI)*, Yokohama, Japan, July 2020 (virtual).
- (11) Jialin Song, Yury S Tokpanov, **Yuxin Chen**, Dagny Fleischman, Katherine T Fountaine, Yisong Yue, Harry A Atwater. Mirrored Plasmonic Filter Design via Active Learning of Multi-Fidelity Physical Models. In the *IEEE Conference on Lasers and Electro-Optics (CLEO)*, May 2020.
- (12) Farnam Mansouri, **Yuxin Chen**, Ara Vartanian, Xiaojin Zhu, Adish Singla. Preference-Based Batch and Sequential Teaching: Towards a Unified View of Models. In the *33rd Conference on Neural Information Processing Systems (NeurIPS)*, December 2019.
- (13) Nikhil Ghosh, **Yuxin Chen**, Yisong Yue. Landmark Ordinal Embedding. In the *33rd Conference on Neural Information Processing Systems (NeurIPS)*, December 2019.
- (14) Anette Hunziker, **Yuxin Chen**, Oisín Mac Aodha, Manuel Gomez Rodriguez, Andreas Krause, Pietro Perona, Yisong Yue, Adish Singla. Teaching Multiple Concepts to Forgetful Learners. In the *33rd Conference on Neural Information Processing Systems (NeurIPS)*, December 2019.
- (15) Baihong Jin, Yingshui Tan, Alexander Nettekoven, **Yuxin Chen**, Ufuk Topcu, Yisong Yue, Alberto Sangiovanni-Vincentelli, An Encoder-Decoder Based Approach for Anomaly Detection with Application in Additive Manufacturing. In the *IEEE International Conference on Machine Learning and Applications (ICMLA)*, December 2019.
- (16) Baihong Jin, **Yuxin Chen**, Dan Li, Kameshwar Poola, Alberto Sangiovanni-Vincentelli. An SVM-based Change Point Detection Approach Using Temporal Information. In the *IEEE International Conference on Prognostics and Health Management (PHM)*, San Francisco, CA, June 2019.
- (17) Mohamadreza Ahmadi, Bo Wu, **Yuxin Chen**, Yisong Yue, Ufuk Topcu. Barrier Certificates for Assured Machine Teaching. In the *American Control Conference (ACC)*, July 2019.
- (18) Jialin Song, **Yuxin Chen**, Yisong Yue. A General Framework for Multi-fidelity Bayesian Optimization with Gaussian Processes. In the *22nd International Conference on Artificial Intelligence and Statistics (AISTATS)* (acceptance rate 32.4%), Naha, Okinawa, Japan, April 2019.
- (19) Kevin Yang, **Yuxin Chen**, Alycia Lee, Yisong Yue. Batched Stochastic Bayesian Optimization via Combinatorial Constraints Design. In the *22nd International Conference on Artificial Intelligence and Statistics (AISTATS)* (acceptance rate 32.4%), Naha, Okinawa, Japan, April 2019.
- (20) **Yuxin Chen**, Adish Singla, Oisín Mac Aodha, Pietro Perona, Yisong Yue. Understanding the Role of Adaptivity in Machine Teaching: The Case of Version Space Learners. In the *32nd Conference on Neural Information Processing Systems (NeurIPS)* (acceptance rate 20.8%), Montréal, Canada, December 2018.
- (21) Oisín Mac Aodha, Shihan Su, **Yuxin Chen**, Pietro Perona, and Yisong Yue. Teaching Categories to Human Learners with Visual Explanations. In the *Conference on Computer Vision and Pattern Recognition (CVPR)* (acceptance rate 29.6%), Salt Lake City, UT, June 2018 (**Spotlight Presentation**).
- (22) **Yuxin Chen**, Oisín Mac Aodha, Shihan Su, Pietro Perona, Yisong Yue. Near-Optimal Machine Teaching via Explanatory Teaching Sets. In the *21st International Conference on Artificial Intelligence and Statistics (AISTATS)* (acceptance rate 33.2%), Playa Blanca, Lanzarote, Canary Islands, April 2018.
- (23) Marc Brockschmidt, **Yuxin Chen**, Pushmeet Kohli, Siddharth Krishna, Daniel Tarlow. Learning Shape Analysis. In the *24th Static Analysis Symposium (SAS)*, New York City, NY, August 2017.
- (24) **Yuxin Chen**, Jean-Michel Renders, Morteza Haghir Chehreghani, and Andreas Krause. Near-optimal Value of Information via Dynamic Hypothesis Enumeration. In the *33rd Conference on Uncertainty in Artificial Intelligence (UAI)* (acceptance rate 30.8%), Sydney, Australia, August 2017.
- (25) **Yuxin Chen**, S. Hamed Hassani, and Andreas Krause. Near-optimal Bayesian Active Learning with Correlated Noisy Tests. In the *20th International Conference on Artificial Intelligence and Statistics (AISTATS)* (acceptance rate 31.7%), Fort Lauderdale, FL USA, April 2017.

- (26) **Yuxin Chen**, S. Hamed Hassani, Amin Karbasi, Andreas Krause. *Sequential Information Maximization: When is Greedy Near-optimal?*. In the *28th Annual Conference on Learning Theory (COLT)* (acceptance rate 39.77%), Paris, France, July 2015.
- (27) **Yuxin Chen**, Shervin Javdani, Amin Karbasi, Drew Bagnell, Siddhartha Srinivasa, Andreas Krause. *Sub-modular Surrogates for Value of Information*. In the *29th AAAI Conference on Artificial Intelligence (AAAI)* (acceptance rate 26.67%), Austin, TX, January 2015.
- (28) Shervin Javdani, **Yuxin Chen**, Amin Karbasi, Andreas Krause, Drew Bagnell, Siddhartha Srinivasa. *Near-optimal Bayesian Active Learning for Decision Making*. In the *17th International Conference on Artificial Intelligence and Statistics (AISTATS)* (acceptance rate 35.8%), Reykjavik, Iceland, April 2014.
- (29) **Yuxin Chen**, Hiroaki Shioi, Cesar Antonio Fuentes Montesinos, Lian Pin Koh, Serge Wich, Andreas Krause. *Active Detection via Adaptive Submodularity*. In the *31th International Conference on Machine Learning (ICML)* (acceptance rate 25%), Beijing, China, June 2014.
- (30) **Yuxin Chen**, Andreas Krause. *Near-optimal Batch Mode Active Learning and Adaptive Submodular Optimization*. In Proceedings of the *30th International Conference on Machine Learning (ICML)* (acceptance rate 24%), Atlanta, GA, June 2013.
- (31) Yuanliang Meng, Junyan Li, Patrick Denton, **Yuxin Chen**, Bo Luo, Paul Selden, Xue-wen Chen. *IPKB: A Digital Library for Invertebrate Paleontology*. In *ACM/IEEE - CS Joint Conference on Digital Libraries (JCDL)* (acceptance rate 28%), Washington DC, June 2012
- (32) **Yuxin Chen**, Bo Luo. *S2A: Secure Smart Household Appliances*. Full paper (acceptance rate: 18.58%) at the *2nd ACM Conference on Data and Application Security and Privacy (CODASPY)*, San Antonio, TX, February 2012
- (33) **Yuxin Chen**, Brian Potetz, Bo Luo and Xue-wen Chen. *Cephalometric Landmark Tracing Using Deformable Templates*. In Proceedings of the *1st IEEE Conference on Healthcare Informatics, Imaging, and Systems Biology (HISB)*, San Jose, CA, July 2011.
- (34) Fengjun Li, **Yuxin Chen**, Bo Luo, Dongwon Lee and Peng Liu. *Privacy-Preserving Group Linkage*. Full paper in Proceedings of the *23rd Scientific and Statistical Database Management Conference (SSDBM)*, Portland, OR, July 2011.
- (35) **Yuxin Chen**, Nenghai Yu, Bo Luo, and Xue-wen Chen. *iLike: Integrating Visual and Textual Features for Vertical Search*. Full paper (acceptance rate: 17.48%) at *ACM Multimedia Conference (ACMMM)*, Firenze, Italy, October 2010.

JOURNAL  
ARTICLES

- (36) **Yuxin Chen**, S. Hamed Hassani, and Andreas Krause. *Near-optimal Bayesian Active Learning with Correlated Noisy Tests*. In *Electronic Journal of Statistics (EJS)*, 2017.
- (37) **Yuxin Chen**, Hariprasad Sampathkumar, Bo Luo, and Xue-wen Chen. *iLike: Bridging the semantic gap in vertical image search by integrating text and visual features*. In *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, Vol. 25 (10) pp. 2257-2270, October 2013.

THESIS

- (38) **Yuxin Chen**. *Near-optimal Adaptive Information Acquisition: Theory and Applications*. *PhD Thesis, ETH Zurich*, December 2016.
- (39) **Yuxin Chen**. *Understanding User Intentions in Vertical Image Search*. *Master Thesis, The University of Kansas*, August 2011.

PATENTS

- (40) Jean-Michel Renders, **Yuxin Chen**. *Dynamic Resampling for Sequential Diagnosis and Decision Making*. *Patent App. US20180218264A1*, August 2018.
- (41) Morteza Haghiri Chehreghani, **Yuxin Chen**. *Method of Trip Prediction by Leveraging Trip Histories from Neighboring Users*. *Patent App. US20180012141*, Jan 2018.

- WORKSHOP CONTRIBUTIONS
- (42) Ziyu Ye, Chaoqi Wang, Zixin Ding, **Yuxin Chen**. The Price of Sparsity: Generalization and Memorization in Sparse Neural Network. Towards Effective Case-Based Decision Support with Human-Compatible Representations. In the *Sparsity in Neural Networks Workshop (SNN)*, July, 2022.
- (43) Han Liu, Yizhou Tian, Chacha Chen, Shi Feng, **Yuxin Chen**, Chenhao Tan. Towards Effective Case-Based Decision Support with Human-Compatible Representations. In the *ICML 2022 Workshop on Human-Machine Collaboration and Teaming (HMCaT)*, July 2022.
- (44) Renyu Zhang, Aly A Khan, Robert L. Grossman, **Yuxin Chen**. Deep Bayesian Active Learning via Equivalence Class Annealing. In the *ICML Workshop on Adaptive Experimental Design and Active Learning in the Real World (ReALML)*, July 2022.
- (45) Xuefeng Liu, Fangfang Xia, Rick Stevens, **Yuxin Chen**. Contextual Active Online Model Selection with Expert Advice. In the *ICML Workshop on Adaptive Experimental Design and Active Learning in the Real World (ReALML)*, July 2022.
- (46) Fengxue Zhang, Jialin Song, James Bowden, Alexander Ladd, Yisong Yue, Thomas Desautels, **Yuxin Chen**. Learning Region of Interest for Bayesian Optimization with Adaptive Level-Set Estimation. In the *ICML Workshop on Adaptive Experimental Design and Active Learning in the Real World (ReALML)*, July 2022.
- (47) Fengxue Zhang, Yair Altas, Louise Fan, Kaustubh Vinchure, Brian Nord, **Yuxin Chen**. Design of Physical Experiments via Collision-Free Latent Space Optimization. In the *NeurIPS Workshop on Machine Learning and the Physical Sciences*, December 2020.
- (48) Chinmaya Mahesh, Kristin Dona, David W. Miller, **Yuxin Chen**. Design of Physical Experiments via Collision-Free Latent Space Optimization. In the *NeurIPS Workshop on Machine Learning and the Physical Sciences*, December 2020.
- (49) Kevin Yang, **Yuxin Chen**, Alycia Lee, Yisong Yue. Batched Stochastic Bayesian Optimization via Combinatorial Constraints Design. In the *NeurIPS Workshop on Machine Learning for Molecules and Materials*, Montreal, Canada, December 2018.
- (50) Jialin Song, Yury S. Tokpanov, **Yuxin Chen**, Dagny Fleischman, Kate T. Fountaine, Harry A. Atwater, Yisong Yue. Optimizing Photonic Nanostructures via Multi-fidelity Gaussian Processes. In the *NeurIPS Workshop on Machine Learning for Molecules and Materials*, Montreal, Canada, December 2018.
- (51) Shihan Su, **Yuxin Chen**, Oisín Mac Aodha, Pietro Perona, Yisong Yue. Interpretable Teaching of Visual Categories to Humans Learner. In the *NIPS Workshop on Teaching Machines, Robots, and Humans*, Long Beach, California, December 2017.
- (52) Marc Brockschmidt, **Yuxin Chen**, Byron Cook, Pushmeet Kohli, Daniel Tarlow. Learning to Decipher the Heap for Program Verification. In the *ICML Workshop on Constructive Machine Learning (CML)*, Lille, France, July 2015 (**Winner of the Best Paper Award**).
- (53) Shervin Javdani, **Yuxin Chen**, Amin Karbasi, Drew Bagnell, Siddhartha Srinivasa, Andreas Krause. Decision Region Determination for Touch-based Localization. In the *RSS Workshop on Information-based Grasp and Manipulation Planning*, July 2014.
- (54) **Yuxin Chen**, Hiroaki Shioi, Cesar Antonio Fuentes Montesinos, Lian Pin Koh, Serge Wich, Andreas Krause. Active Detection for Biodiversity Monitoring via Adaptive Submodularity. In the *NIPS Workshop on Machine Learning for Sustainability (MLSUST)*, Lake Tahoe, NV, December 2013.
- (55) **Yuxin Chen**, Andreas Krause. Near-optimal Batch Mode Active Learning and Stochastic Optimization. In the *4th NIPS Workshop on Discrete Optimization in Machine Learning Structure and Scalability (DISCML)*, Lake Tahoe, NV, December 2012.
- PREPRINTS
- (56) Himabindu Lakkaraju, Dylan Slack, **Yuxin Chen**, Chenhao Tan, Sameer Singh. Rethinking Explainability as a Dialogue: A Practitioner’s Perspective. *Preprint arXiv:2202.01875*, 2022.
- (57) Fengxue Zhang, Brian Nord, **Yuxin Chen**. Learning Representation for Bayesian Optimization with Collision-free Regularization. *Preprint, arXiv:2203.08656*, 2022.

- (58) Renyu Zhang, Aly A Khan, Robert L Grossman, **Yuxin Chen**. BALanCe: Deep Bayesian Active Learning via Equivalence Class Annealing. *Preprint, Preprint, arXiv:2112.13737*, 2021.
- (59) Matteo Guarrera, Baihong Jin, Tung-Wei Lin, Maria Zuluaga, *Yuxin Chen*, Alberto Sangiovanni-Vincentelli. Class-wise Thresholding for Detecting Out-of-Distribution Data. *Preprint arXiv:2110.15292*, 2021.
- (60) Niklas Åkerblom, **Yuxin Chen**, Morteza Haghiri Chehreghani. Online Learning of Energy Consumption for Navigation of Electric Vehicles. *Preprint, arXiv:2111.02314*, 2021.
- (61) Farnam Mansouri, **Yuxin Chen**, Ara Vartanian, Xiaojin Zhu, Adish Singla. Preference-Based Batch and Sequential Teaching. *Preprint, arXiv:2010.10012*, 2020.
- (62) Yingshui Tan, Baihong Jin, Xiangyu Yue, **Yuxin Chen**, Alberto Sangiovanni Vincentelli. Exploiting Uncertainties from Ensemble Learners to Improve Decision-Making in Healthcare AI. *Preprint, arXiv:2007.06063*, 2020.
- (63) Baihong Jin, Yingshui Tan, **Yuxin Chen**, Kameshwar Poolla, Alberto Sangiovanni Vincentelli. Are Ensemble Classifiers Powerful Enough for the Detection and Diagnosis of Intermediate-Severity Faults? *Preprint, arXiv:2007.03167*, 2020.
- (64) Akash Kumar, Hanqi Zhang, Adish Singla, **Yuxin Chen**. Average-case Complexity of Teaching Convex Polytopes via Halfspace Queries. *Preprint, arXiv:2006.14677*, 2020.