Su-In Lee

List of Publications by Year in Descending Order

41 papers	4,090 citations	19 h-index	48 g-index
48 ext. papers	5,933 ext. citations	13.1 avg, IF	5.6 L-index

#	Paper	IF	Citations
41	Epigenome-wide analysis of long-term air pollution exposure and DNA methylation in monocytes: results from the Multi-Ethnic Study of Atherosclerosis. *Epigenetics*, **2021**, 1-17	5.7	2
40	Improving performance of deep learning models with axiomatic attribution priors and expected gradients. *Nature Machine Intelligence*, **2021**, 3, 620-631	22.5	10
39	AI for radiographic COVID-19 detection selects shortcuts over signal. *Nature Machine Intelligence*, **2021**, 3, 610-619	22.5	47
38	University of Washington Nathan Shock Center: innovation to advance aging research. *GeroScience*, **2021**, 43, 2161-2165	8.9	
37	Efficient and Explainable Risk Assessments for Imminent Dementia in an Aging Cohort Study. *IEEE Journal of Biomedical and Health Informatics*, **2021**, 25, 2409-2420	7.2	2
36	Reproducibility standards for machine learning in the life sciences. *Nature Methods*, **2021**, 18, 1132-1135	21.6	14
35	Unified AI framework to uncover deep interrelationships between gene expression and Alzheimer's disease neuropathologies. *Nature Communications*, **2021**, 12, 5369	17.4	2
34	Course Corrections for Clinical AI.. *Kidney360*, **2021**, 2, 2019-2023	1.8	
33	Automated Detection of Glaucoma With Interpretable Machine Learning Using Clinical Data and Multimodal Retinal Images. *American Journal of Ophthalmology*, **2021**, 231, 154-169	4.9	11
32	Forecasting adverse surgical events using self-supervised transfer learning for physiological signals. *Npj Digital Medicine*, **2021**, 4, 167	15.7	2
31	From Local Explanations to Global Understanding with Explainable AI for Trees. *Nature Machine Intelligence*, **2020**, 2, 56-67	22.5	851
30	An adversarial approach for the robust classification of pneumonia from chest radiographs **2020**,		6
29	Visualizing the Impact of Feature Attribution Baselines. *Distill*, **2020**, 5,	5.3	16
28	Adversarial deconfounding autoencoder for learning robust gene expression embeddings. *Bioinformatics*, **2020**, 36, i573-i582	7.2	5
27	AI for radiographic COVID-19 detection selects shortcuts over signal **2020**,		20
26	AIControl: replacing matched control experiments with machine learning improves ChIP-seq peak identification. *Nucleic Acids Research*, **2019**, 47, e58	20.1	9
25	A machine learning approach to integrate big data for precision medicine in acute myeloid leukemia. *Nature Communications*, **2018**, 9, 42	17.4	106

24	High Throughput Drug Screening of Leukemia Stem Cells Reveals Resistance to Standard Therapies and Sensitivity to Other Agents in Acute Myeloid Leukemia. *Blood*, **2018**, 132, 180-180	2.2	1
23	Associations Between Genetic Data and Quantitative Assessment of Normal Facial Asymmetry. *Frontiers in Genetics*, **2018**, 9, 659	4.5	8
22	Explainable machine-learning predictions for the prevention of hypoxaemia during surgery. *Nature Biomedical Engineering*, **2018**, 2, 749-760	19	421
21	Extracting a low-dimensional description of multiple gene expression datasets reveals a potential driver for tumor-associated stroma in ovarian cancer. *Genome Medicine*, **2016**, 8, 66	14.4	15
20	Identifying Network Perturbation in Cancer. *PLoS Computational Biology*, **2016**, 12, e1004888	5	26
19	A Distributed Network for Intensive Longitudinal Monitoring in Metastatic Triple-Negative Breast Cancer. *Journal of the National Comprehensive Cancer Network: JNCCN*, **2016**, 14, 8-17	7.3	17
18	ChromNet: Learning the human chromatin network from all ENCODE ChIP-seq data. *Genome Biology*, **2016**, 17, 82	18.3	26
17	Sparse expression bases in cancer reveal tumor drivers. *Nucleic Acids Research*, **2015**, 43, 1332-44	20.1	20
16	The proteomic landscape of triple-negative breast cancer. *Cell Reports*, **2015**, 11, 630-44	10.6	130
15	Mini-Chromosome Maintenance (MCM) DNA Helicase Genes Influence Acute Myeloid Leukemia (AML) Replication and Response to Chemotherapy-Induced DNA Damage. *Blood*, **2015**, 126, 3629-3629	2.2	
14	Node-Based Learning of Multiple Gaussian Graphical Models. *Journal of Machine Learning Research*, **2014**, 15, 445-488	28.6	54
13	Learning Graphical Models With Hubs. *Journal of Machine Learning Research*, **2014**, 15, 3297-3331	28.6	25
12	Personalized Approach To Treatment of Acute Myeloid Leukemia Using a High-Throughput Chemosensitivity Assay. *Blood*, **2013**, 122, 483-483	2.2	2
11	A systematic approach to multifactorial cardiovascular disease: causal analysis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 2821-35	9.4	15
10	Massively parallel functional dissection of mammalian enhancers in vivo. *Nature Biotechnology*, **2012**, 30, 265-70	44.5	366
9	Structured Learning of Gaussian Graphical Models. *Advances in Neural Information Processing Systems*, **2012**, 2012, 629-637	2.2	8
8	Learning generative models for protein fold families. *Proteins: Structure, Function and Bioinformatics*, **2011**, 79, 1061-78	4.2	207
7	Brn3a and Islet1 act epistatically to regulate the gene expression program of sensory differentiation. *Journal of Neuroscience*, **2011**, 31, 9789-99	6.6	68

6	Learning a prior on regulatory potential from eQTL data. *PLoS Genetics*, **2009**, 5, e1000358	6	151
5	A pluripotency signature predicts histologic transformation and influences survival in follicular lymphoma patients. *Blood*, **2009**, 114, 3158-66	2.2	43
4	Identifying regulatory mechanisms using individual variation reveals key role for chromatin modification. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 14062-7	11.5	115
3	Sequencing of Aspergillus nidulans and comparative analysis with A. fumigatus and A. oryzae. *Nature*, **2005**, 438, 1105-15	50.4	1094
2	Application of independent component analysis to microarrays. *Genome Biology*, **2003**, 4, R76	18.3	159
1	DeepProfile: Deep learning of cancer molecular profiles for precision medicine		16