

Zeyneb Kurt
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Computer and Information Sciences
Computer and Information Sciences
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I received my BSc, MSc, and PhD degrees in Department of Computer Engineering from Yildiz Technical University, Istanbul, Turkey, in 2005, 2007, and 2013 respectively.
Between 2015 and 2018, I worked as an experienced post-doctoral researcher at University of California, Los Angeles (UCLA), USA, with a demonstrated history of working in bioinformatics and computational biology fields.
I served as an assistant professor in Department of Computer Engineering at Yildiz Technical University between 2018 and 2020.

My research interests include bioinformatics, computational biology, image processing, and machine learning fields.
My Google Scholar profile: <https://scholar.google.com/citations?hl=en&user=e7v0D7sAAAAJ>

Research interests

Bioinformatics, Computational Biology, Statistics, and Machine Learning

Qualifications

Computer Science, PhD, Yildiz Technical University

Sep 2007 → 16 Dec 2013

Award Date: 16 Dec 2013

Computer Science, MSc, Yildiz Technical University

Sep 2005 → 16 Jul 2007

Award Date: 16 Jul 2007

Computer Science, BSc

Sep 2001 → 12 Jul 2005

Award Date: 12 Jul 2005

Aug 2018 → Jul 2020 Assistant Professor at Yildiz Technical University, Istanbul, Turkey

May 2015 → Aug 2018 Postdoctoral Researcher at University of California, Los Angeles (UCLA)

2014 Visiting Researcher at University for Health Sciences, Medical Informatics and Technology (UMIT), Austria

Employment

Lecturer

Computer and Information Sciences

Northumbria University

17 Aug 2020 → present

Lecturer

Computer and Information Sciences

Northumbria University

31 Jul 2020 → present

Research outputs

Transcription Factor MAFF (MAF Basic Leucine Zipper Transcription Factor F) Regulates an Atherosclerosis Relevant Network Connecting Inflammation and Cholesterol Metabolism

von Scheidt, M., Zhao, Y., de Aguiar Vallim, T. Q., Che, N., Wierer, M., Seldin, M. M., Franzén, O., Kurt, Z., Pang, S., Bongiovanni, D., Yamamoto, M., Edwards, P. A., Ruusalepp, A., Kovacic, J. C., Mann, M., Björkegren, J. L. M., Lusic, A. J., Yang, X. & Schunkert, H., 4 May 2021, In: *Circulation*. 143, 18, p. 1809-1823 15 p.

Redefining tumor classification and clinical stratification through a colorectal cancer single-cell atlas

Khaliq, A. M., Kurt, Z., Grunvald, M. W., Erdogan, C., Turgut, S. S., Rand, T., Khare, S., Borgia, J. A., Hayden, D. M., Pappas, S. G., Govekar, H. R., Bhamra, A. R., Singh, A., Jacobson, R. A., Kam, A. E., Zloza, A., Reiser, J., Catenacci, D.

V., Turaga, K., Radovich, M. & 9 others, Thyparambil, S., Levy, M. A., Subramanian, J., Kuzel, T. M., Sadanandam, A., Hussain, A., El-Rayes, B., Salahudeen, A. & Masood, A., 7 Feb 2021, (Submitted) In: bioRxiv. 40 p., 429256.

1812-P: Multitissue Single-Cell Analysis Reveals Differential Tissue, Cellular, and Molecular Sensitivity between Fructose and High-Fat Diets

Arneson, D., Majid, S., Ahn, I. S., Kurt, Z., Diamante, G., Zhang, G., Gómez-Pinilla, F. & Yang, X., 4 Jun 2019, In: Diabetes. 68, Supplement 1, p. 1812-P

The Genetic Architecture of Diet-Induced Hepatic Fibrosis in Mice

Hui, S. T., Kurt, Z., Tuominen, I., Norheim, F., C.Davis, R., Pan, C., Dirks, D. L., Magyar, C. E., French, S. W., Chella Krishnan, K., Sabir, S., Campos-Pérez, F., Méndez-Sánchez, N., Macías-Kauffer, L., León-Mimila, P., Canizales-Quinteros, S., Yang, X., Beaven, S. W., Huertas-Vazquez, A. & Lusic, A. J., 8 Nov 2018, In: Hepatology. 68, 6, p. 2182-2196 15 p.

Tissue-specific pathways and networks underlying sexual dimorphism in non-alcoholic fatty liver disease 06 Biological Sciences 0604 Genetics

Kurt, Z., Barrere-Cain, R., Laguardia, J., Mehrabian, M., Pan, C., Hui, S. T., Norheim, F., Zhou, Z., Hasin, Y., Lusic, A. J. & Yang, X., 22 Oct 2018, In: Biology of Sex Differences. 9, 1, 46.

The Memory of Environmental Chemical Exposure in *C. elegans* Is Dependent on the Jumonji Demethylases *jmjd-2* and *jmjd-3/utx-1*

Camacho, J., Truong, L., Kurt, Z., Chen, Y. W., Morselli, M., Gutierrez, G., Pellegrini, M., Yang, X. & Allard, P., 22 May 2018, In: Cell Reports. 23, 8, p. 2392-2404 13 p.

Abstract 468: Cross-species Comparison of Genetic Networks of Coronary Artery Disease

Kurt, Z., Barrere-Cain, R. E., Sun, C., Zhao, Y., Pan, C., Ruusalepp, A., Franzén, O., Koplev, S., Bjorkegren, J. L., Lusic, A. J. & Yang, X., May 2018.

Integration of Multi-omics Data from Mouse Diversity Panel Highlights Mitochondrial Dysfunction in Non-alcoholic Fatty Liver Disease

Chella Krishnan, K., Kurt, Z., Barrere-Cain, R., Sabir, S., Das, A., Floyd, R., Vergnes, L., Zhao, Y., Che, N., Charugundla, S., Qi, H., Zhou, Z., Meng, Y., Pan, C., Seldin, M. M., Norheim, F., Hui, S., Reue, K., Lusic, A. J. & Yang, X., 24 Jan 2018, In: Cell Systems. 6, 1, p. 103-115.e7

Estimation of the proteomic cancer co-expression sub networks by using association estimators

Erdogan, C., Kurt, Z. & Diri, B., 16 Nov 2017, In: PLoS One. 12, 11, p. e0188016

Shared genetic regulatory networks for cardiovascular disease and type 2 diabetes in multiple populations of diverse ethnicities in the United States

Cardiogenics Consortium, 28 Sep 2017, In: PLoS Genetics. 13, 9, p. e1007040

Ağ Çıkarım Algoritmalarındaki İlişki Tahminçilerinin Meme Kanseri Proteomik Verileri Üzerinde İncelenmesi

Erdogan, C., Kurt, Z. & Diri, B., 27 Jun 2017, *2017 25th Signal Processing and Communications Applications Conference, SIU 2017*. Institute of Electrical and Electronics Engineers Inc., 7960670. (2017 25th Signal Processing and Communications Applications Conference, SIU 2017).

Applications and Limitations of Mouse Models for Understanding Human Atherosclerosis

von Scheidt, M., Zhao, Y., Kurt, Z., Pan, C., Zeng, L., Yang, X., Schunkert, H. & Lusic, A. J., 7 Feb 2017, In: Cell Metabolism. 25, 2, p. 248-261 14 p.

Mergeomics: Multidimensional data integration to identify pathogenic perturbations to biological systems

Shu, L., Zhao, Y., Kurt, Z., Byars, S. G., Tukiainen, T., Kettunen, J., Orozco, L. D., Pellegrini, M., Lusic, A. J., Ripatti, S., Zhang, B., Inouye, M., Mäkinen, V. P. & Yang, X., 4 Nov 2016, In: BMC Genomics. 17, 1, 874.

Comprehensive review of association estimators for the inference of gene networks

Kurt, Z., Aydin, N. & Altay, G., 23 Mar 2016, In: Turkish Journal of Electrical Engineering and Computer Sciences. 24, 3, p. 695-U1401

Structural Analysis of Treatment Cycles Representing Transitions between Nursing Organizational Units Inferred from Diabetes

Dehmer, M., Kurt, Z., Emmert-Streib, F., Them, C., Schulc, E. & Hofer, S., 1 Jun 2015, In: PLoS One. 10, 6

A comprehensive comparison of association estimators for gene network inference algorithms

Kurt, Z., Aydin, N. & Altay, G., 1 Aug 2014, In: Bioinformatics. 30, 15, p. 2142-2149

Netmes: Assessing Gene Network Inference Algorithms by Network-Based Measures

Altay, G., Kurt, Z., Dehmer, M. & Emmert-Streib, F., 2014, In: Evolutionary Bioinformatics. 10, p. 1-9

Impacts of the different spline orders on the B-spline association estimator

Kurt, Z., Aydin, N. & Altay, G., 1 Dec 2013, *13th IEEE International Conference on Bioinformatics and BioEngineering, IEEE BIBE 2013*. 6701663. (13th IEEE International Conference on Bioinformatics and BioEngineering, IEEE BIBE 2013).

Comparison of several classification algorithms for gender recognition from face images

Sakarkaya, M., Yanbol, F. & Kurt, Z., 1 Oct 2012, *INES 2012 - IEEE 16th International Conference on Intelligent Engineering Systems, Proceedings*. p. 97-101 5 p. 6249810. (INES 2012 - IEEE 16th International Conference on Intelligent Engineering Systems, Proceedings).

Linear discriminant analysis in Ottoman alphabet character recognition

Kurt, Z., Turkmen, H. I. & Karsligil, M. E., 1 Dec 2009, *Proceedings of the European Computing Conference*. VOL.2 ed. p. 601-607 7 p. (Lecture Notes in Electrical Engineering; vol. 28 LNEE, no. VOL.2).

Global feature based female facial beauty decision system

Türkmen, H. I., Kurt, Z. & Karsligil, M. E., 1 Dec 2007, *15th European Signal Processing Conference, EUSIPCO 2007 - Proceedings*. p. 1945-1949 5 p. (European Signal Processing Conference).

Prizes

American Heart Association Postdoctoral fellowship 2017

Kurt, Zeyneb (Recipient), Jun 2017

UCLA women's health center and Iris Cantor - postdoctoral fellowship for 1 year

Kurt, Zeyneb (Recipient), Jul 2017

PGR Supervision

Olalekan Ogundipe, Start Date: 18/01/2021