

Yongkang Kim

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Current position

Postdoc, Institute for Behavioral Genetics, University of Colorado

Areas of specialisation

Statistics: Statistical Genetics

Research Interest

Biostatistics, Genome Wide Association Study, Machine Learning, Data Mining.

Research Work

University of Colorado at Boulder

Post Doc in Institute for Behavioral Genetics

Boulder, Colorado, US

2019-Present

Seoul National University

Post Doc in Department of Statistics

Seoul, South Korea

2018-2019

Education

Seoul National University

Ph.D in Department of Statistics

Seoul, South Korea

2013-2018

Seoul National University

MS in Department of Statistics

Seoul, South Korea

2011-2013

Seoul National University

BS in Department of Statistics

Seoul, South Korea

2007-2011

Teaching Experience

Seoul National University

Lecturer, Interdisciplinary Program in Bioinformatics

Seoul, South Korea

March 2019 - August 2019

Courses taught: Introduction to statistics for bioinformatics

Key Skills

- Statistical Package: R, SAS, SPSS

Editorial works

Review Editor for Frontiers in Genetics

Reviewer works

- 1 review for Annals of Human Genetics
- 2 reviews for Frontiers in Genetics
- 1 reviews for Genomics & Informatics

Publications (First-authored)

1. Yongkang Kim, Sungyoung Lee, Jin-Young Jang, Seungyeoun Lee, and Taesung Park. Identifying mirna-mrna integration set associated with survival time. *Frontiers in Genetics*, 12:644, 2021
2. Yongkang Kim, Jared V Balbona, and Matthew C Keller. Bias and precision of parameter estimates from models using polygenic scores to estimate environmental and genetic parental influences. *Behavior genetics*, December 2020
3. Yongkang Kim and Taesung Park. Develop nomogram to predict malignancy of intraductal papillary mucinous neoplasm. *Methods in molecular biology (Clifton, N.J.)*, 1882:23–32, 2019
4. Yongkang Kim and Taesung Park. Hiscom-mimi: Software for hierarchical structural component analysis for mirna-mrna integration model for binary phenotypes. *Genomics & informatics*, 17:e10, March 2019
5. Yongkang Kim, Sungyoung Lee, Sungkyoung Choi, Jin-Young Jang, and Taesung Park. Hierarchical structural component modeling of microrna-mrna integration analysis. *BMC bioinformatics*, 19:75, May 2018
6. Ho-Sun Lee, Yongkang Kim, and Taesung Park. New common and rare variants influencing metabolic syndrome and its individual components in a korean population. *Scientific reports*, 8:5701, April 2018

7. Hyunsoo Kim, JiYoung Park, Yongkang Kim, Areum Sohn, Injun Yeo, Su Jong Yu, Jung-Hwan Yoon, Taesung Park, and Youngsoo Kim. Serum fibronectin distinguishes the early stages of hepatocellular carcinoma. *Scientific reports*, 7:9449, August 2017
8. Yongkang Kim, Gyu-tae Kim, Min-Seok Kwon, and Taesung Park. Statistical quality control analysis of high-dimensional omics data. *IJDMB*, 18(3):210–222, 2017
9. Yongkang Kim, Min-Seok Kwon, Yonghwan Choi, Sung-Gon Yi, Junghyun Namkung, Sangjo Han, Wooil Kwon, Sun Whe Kim, Jin-Young Jang, Hyunsoo Kim, Youngsoo Kim, Seungyeoun Lee, and Taesung Park. Comparative studies for developing protein based cancer prediction model to maximise the ROC-AUC with various variable selection methods. *IJDMB*, 16(1):64–76, 2016
10. Samuel Sunghwan Cho, Yongkang Kim, Joon Yoon, Minseok Seo, Su-Kyung Shin, Eun-Young Kwon, Sung-Eun Kim, Yun-Jung Bae, Seungyeoun Lee, Mi-Kyung Sung, Myung-Sook Choi, and Taesung Park. A model-based joint identification of differentially expressed genes and phenotype-associated genes. *PLoS one*, 11:e0149086, 2016
11. Yongkang Kim and Taesung Park. Robust gene-gene interaction analysis in genome wide association studies. *PLoS one*, 10:e0135016, 2015

Publications (Co-authored)

1. Sungjin Nam, Josu G. Alday, Mincheol Kim, Hyemin Kim, Yongkang Kim, Taesung Park, Hyoun Soo Lim, Bang Yong Lee, Yoo Kyung Lee, and Ji Young Jung. The relationships of present vegetation, bacteria, and soil properties with soil organic matter characteristics in moist acidic tundra in alaska. *Science of The Total Environment*, page 145386, jan 2021
2. Jared V Balbona, Yongkang Kim, and Matthew C Keller. Estimation of parental effects using polygenic scores. *Behavior genetics*, January 2021
3. Lydia Mok, Yongkang Kim, Sungyoung Lee, Sungkyoung Choi, Seungyeoun Lee, Jin-Young Jang, and Taesung Park. Hiscom-page: Hierarchical structural component models for pathway analysis of gene expression data. *Genes*, 10, November 2019
4. Mira Park, Eunbin Choi, Heonsu Lee, Yongkang Kim, and Taesung Park. Exploratory analysis for detecting population structures by iterative pruning based on independent component analysis. *IJDMB*, 22(1):61–74, 2019
5. Ji Hyun Baek, Kyooseob Ha, Yongkang Kim, Young-Ah Cho, So Yung Yang, Yujin Choi, Sung-Lee Jang, Taesung Park, Tae Hyon Ha, and Kyung Sue Hong. Psychopathologic structure of bipolar disorders: exploring dimensional phenotypes, their relationships, and their associations with bipolar i and ii disorders. *Psychological medicine*, 49:2177–2185, October 2019
6. Jieun Ka, Jaehoon Lee, Yongkang Kim, Bermseok Oh, T2D-GENES Consortium, and Taesung Park. Meta-qtest: meta-analysis of quadratic test for rare variants. *BMC medical genomics*, 12:102, July 2019

7. Sungyoung Lee, Sunmee Kim, Yongkang Kim, Bermseok Oh, Heungsun Hwang, and Taesung Park. Pathway analysis of rare variants for the clustered phenotypes by using hierarchical structured components analysis. *BMC medical genomics*, 12:100, July 2019
8. So Yung Yang, Ji Hyun Baek, Youngah Cho, Eun-Young Cho, Yujin Choi, Yongkang Kim, Taesung Park, and Kyung Sue Hong. Effects of genetic variants of st8sia2 and ncam1 genes on seasonal mood changes and circadian preference in the general population. *Chronobiology international*, 35:405–415, March 2018
9. Sungkyoung Choi, Sungyoung Lee, Yongkang Kim, Heungsun Hwang, and Taesung Park. Hiscom-ggi: Hierarchical structural component analysis of gene-gene interactions. *J. Bioinformatics and Computational Biology*, 16(6):i840026, December 2018
10. Jongsu Jun, Jungsoo Gim, Yongkang Kim, Hyunsoo Kim, Su Jong Yu, Injun Yeo, Jiyoung Park, Jeong-Ju Yoo, Young Youn Cho, Dong Hyeon Lee, Eun Ju Cho, Jeong-Hoon Lee, Yoon Jun Kim, Seungyeoun Lee, Jung-Hwan Yoon, Youngsoo Kim, and Taesung Park. Analysis of significant protein abundance from multiple reaction-monitoring data. *BMC systems biology*, 12:123, December 2018
11. Seungyeoun Lee, Donghee Son, Yongkang Kim, Wenbao Yu, and Taesung Park. Unified cox model based multifactor dimensionality reduction method for gene-gene interaction analysis of the survival phenotype. *BioData mining*, 11:27, 2018
12. Sungyoung Lee, Yongkang Kim, Sungkyoung Choi, Heungsun Hwang, and Taesung Park. Pathway-based approach using hierarchical components of rare variants to analyze multiple phenotypes. *BMC bioinformatics*, 19:79, May 2018
13. Jason Flannick, Christian Fuchsberger, Anubha Mahajan, Tanya M Teslovich, Vineeta Agarwala, Kyle J Gaulton, Lizz Caulkins, Ryan Koesterer, Clement Ma, Loukas Moutsianas, Davis J McCarthy, Manuel A Rivas, John R B Perry, Xueling Sim, Thomas W Blackwell, Neil R Robertson, N William Rayner, Pablo Cingolani, Adam E Locke, Juan Fernandez Tajes, Heather M Highland, Josee Dupuis, Peter S Chines, Cecilia M Lindgren, Christopher Hartl, Anne U Jackson, Han Chen, Jeroen R Huyghe, Martijn van de Bunt, Richard D Pearson, Ashish Kumar, Martina Müller-Nurasyid, Niels Grarup, Heather M Stringham, Eric R Gamazon, Jaehoon Lee, Yuhui Chen, Robert A Scott, Jennifer E Below, Peng Chen, Jinyan Huang, Min Jin Go, Michael L Stitzel, Dorota Pasko, Stephen C J Parker, Tibor V Varga, Todd Green, Nicola L Beer, Aaron G Day-Williams, Teresa Ferreira, Tasha Fingerlin, Momoko Horikoshi, Cheng Hu, Iksoo Huh, Mohammad Kamran Ikram, Bong-Jo Kim, Yongkang Kim, Young Jin Kim, Min-Seok Kwon, Juyoung Lee, Selyeong Lee, Keng-Han Lin, Taylor J Maxwell, Yoshihiko Nagai, Xu Wang, Ryan P Welch, Joon Yoon, Weihua Zhang, Nir Barzilai, Benjamin F Voight, Bok-Ghee Han, Christopher P Jenkinson, Teemu Kuulasmaa, Johanna Kuusisto, Alisa Manning, Maggie C Y Ng, Nicholette D Palmer, Beverley Balkau, Alena Stančáková, Hanna E Abboud, Heiner Boeing, Vilmantas Giedraitis, Dorairaj Prabhakaran, Omri Gottesman, James Scott, Jason Carey, Phoenix Kwan, George Grant, Joshua D Smith, Benjamin M Neale, Shaun Purcell, Adam S Butterworth, Joanna M M Howson, Heung Man Lee, Yingchang Lu, Soo-Heon Kwak, Wei Zhao, John Danesh, Vincent K L Lam, Kyong Soo Park, Danish Saleheen, Wing Yee So, Claudia H T Tam, Uzma Afzal, David Aguilar, Rector Arya, Tin Aung, Edmund Chan, Carmen Navarro, Ching-Yu Cheng, Domenico Palli, Adolfo Correa, Joanne E Curran, Dennis Rybin, Vidya S

Farook, Sharon P Fowler, Barry I Freedman, Michael Griswold, Daniel Esten Hale, Pamela J Hicks, Chiea-Chuen Khor, Satish Kumar, Benjamin Lehne, Dorothée Thuillier, Wei Yen Lim, Jianjun Liu, Marie Loh, Solomon K Musani, Sobha Puppala, William R Scott, Loïc Yengo, Sian-Tsung Tan, Herman A Taylor, Farook Thameem, Gregory Wilson, Tien Yin Wong, Pål Rasmus Njølstad, Jonathan C Levy, Massimo Mangino, Lori L Bonnycastle, Thomas Schwarzmayr, João Fadista, Gabriela L Surdulescu, Christian Herder, Christopher J Groves, Thomas Wieland, Jette Bork-Jensen, Ivan Brändslund, Cramer Christensen, Heikki A Koistinen, Alex S F Doney, Leena Kinnunen, Tõnu Esko, Andrew J Farmer, Liisa Hakaste, Dylan Hodgkiss, Jasmina Kravic, Valeri Lyssenko, Mette Hollensted, Marit E Jørgensen, Torben Jørgensen, Claes Ladenvall, Johanne Marie Justesen, Annemari Käräjämäki, Jennifer Kriebel, Wolfgang Rathmann, Lars Lannfelt, Torsten Lauritzen, Narisu Narisu, Allan Linneberg, Olle Melander, Lili Milani, Matt Neville, Marju Orho-Melander, Lu Qi, Qibin Qi, Michael Roden, Olov Rolandsson, Amy Swift, Anders H Rosengren, Kathleen Stirrups, Andrew R Wood, Evelin Mihailov, Christine Blancher, Mauricio O Carneiro, Jared Maguire, Ryan Poplin, Khalid Shakir, Timothy Fennell, Mark DePristo, Martin Hrabé de Angelis, Panos Deloukas, Anette P Gjesing, Goo Jun, Peter Nilsson, Jacquelyn Murphy, Robert Onofrio, Barbara Thorand, Torben Hansen, Christa Meisinger, Frank B Hu, Bo Isomaa, Fredrik Karpe, Liming Liang, Annette Peters, Cornelia Huth, Stephen P O'Rahilly, Colin N A Palmer, Oluf Pedersen, Rainer Rauramaa, Jaakko Tuomilehto, Veikko Salomaa, Richard M Watanabe, Ann-Christine Syvänen, Richard N Bergman, Dwaipayan Bharadwaj, Erwin P Bottinger, Yoon Shin Cho, Giriraj R Chandak, Juliana Cn Chan, Kee Seng Chia, Mark J Daly, Shah B Ebrahim, Claudia Langenberg, Paul Elliott, Kathleen A Jablonksi, Donna M Lehman, Weiping Jia, Ronald C W Ma, Toni I Pollin, Manjinder Sandhu, Nikhil Tandon, Philippe Froguel, Inês Barroso, Yik Ying Teo, Eleftheria Zeggini, Ruth J F Loos, Kerrin S Small, Janina S Ried, Ralph A DeFronzo, Harald Grallert, Benjamin Glaser, Andres Metspalu, Nicholas J Wareham, Mark Walker, Eric Banks, Christian Gieger, Erik Ingelsson, Hae Kyung Im, Thomas Illig, Paul W Franks, Gemma Buck, Joseph Trakalo, David Buck, Inga Prokopenko, Reedik Mägi, Lars Lind, Yossi Farjoun, Katharine R Owen, Anna L Gloyn, Konstantin Strauch, Tiinamaija Tuomi, Jaspal Singh Kooner, Jong-Young Lee, Taesung Park, Peter Donnelly, Andrew D Morris, Andrew T Hattersley, Donald W Bowden, Francis S Collins, Gil Atzmon, John C Chambers, Timothy D Spector, Markku Laakso, Tim M Strom, Graeme I Bell, John Blangero, Ravindranath Duggirala, E Shyong Tai, Gilean McVean, Craig L Hanis, James G Wilson, Mark Seielstad, Timothy M Frayling, James B Meigs, Nancy J Cox, Rob Sladek, Eric S Lander, Stacey Gabriel, Karen L Mohlke, Thomas Meitinger, Leif Groop, Goncalo Abecasis, Laura J Scott, Andrew P Morris, Hyun Min Kang, David Altshuler, Noël P Burtt, Jose C Florez, Michael Boehnke, and Mark I McCarthy. Sequence data and association statistics from 12,940 type 2 diabetes cases and controls. *Scientific data*, 4:170179, December 2017

14. Jin-Young Jang, Taesung Park, Selyeong Lee, Yongkang Kim, Seung Yeoun Lee, Sun-Whe Kim, Song-Cheol Kim, Ki-Byung Song, Masakazu Yamamoto, Takashi Hatori, Seiko Hiroto, Sohei Satoi, Tsutomu Fujii, Satoshi Hirano, Yasushi Hashimoto, Yashuhiro Shimizu, Dong Wook Choi, Seong Ho Choi, Jin Seok Heo, Fuyuhiko Motoi, Ippei Matsumoto, Woo Jung Lee, Chang Moo Kang, Ho-Seong Han, Yoo-Seok Yoon, Masayuki Sho, Hiroaki Nagano, Goro Honda, Sang Geol Kim, Hee Chul Yu, Jun Chul Chung, Yuichi Nagakawa, Hyung Il Seo, and Hiroki Yamaue. Proposed nomogram predicting the individual risk of malignancy in the patients with branch duct type intraductal papillary mucinous neo-

plasms of the pancreas. *Annals of surgery*, 266:1062–1068, December 2017

15. Jiyoung Park, Yonghwan Choi, Junghyun Namkung, Sung Gon Yi, Hyunsoo Kim, Jiyoung Yu, Yongkang Kim, Min-Seok Kwon, Wooil Kwon, Do-Youn Oh, Sun-Whe Kim, Seung-Yong Jeong, Wonshik Han, Kyu Eun Lee, Jin Seok Heo, Joon Oh Park, Joo Kyung Park, Song Cheol Kim, Chang Moo Kang, Woo Jin Lee, Seungyeoun Lee, Sangjo Han, Taesung Park, Jin-Young Jang, and Youngsoo Kim. Diagnostic performance enhancement of pancreatic cancer using proteomic multimarker panel. *Oncotarget*, 8:93117–93130, November 2017
16. Ji Hyun Baek, Kyooseob Ha, Yongkang Kim, So Yung Yang, Eun-Young Cho, Yujin Choi, Seunghyong Ryu, Yu-Sang Lee, Taesung Park, and Kyung Sue Hong. Association between the zinc finger protein 804a (znf804a) gene and the risk of schizophrenia and bipolar i disorder across diagnostic boundaries. *Bipolar disorders*, 19:305–313, June 2017
17. In Woong Han, Jin-Young Jang, Wooil Kwon, Taesung Park, Yongkang Kim, Kyoung Bun Lee, and Sun-Whe Kim. Ceruloplasmin as a prognostic marker in patients with bile duct cancer. *Oncotarget*, 8:29028–29037, April 2017
18. Selyeong Lee, Sungho Won, Young Jin Kim, Yongkang Kim, T2D-Genes Consortium, Bong-Jo Kim, and Taesung Park. Rare variant association test with multiple phenotypes. *Genetic epidemiology*, 41:198–209, April 2017
19. Yeo Min Yun, Junghan Song, Misuk Ji, Jeong Ho Kim, Yongkang Kim, Taesung Park, Sang Hoon Song, Seungman Park, Min Jin Kim, Sun Jin Nho, and Kyung Won Oh. Calibration of high-density lipoprotein cholesterol values from the korea national health and nutrition examination survey data, 2008 to 2015. *Annals of laboratory medicine*, 37:1–8, January 2017
20. Sung Woo Ahn, Ji Hyun Baek, So-Yung Yang, Yongkang Kim, Youngah Cho, Yujin Choi, Kounseok Lee, Taesung Park, and Kyung Sue Hong. Long-term response to mood stabilizer treatment and its clinical correlates in patients with bipolar disorders: a retrospective observational study. *International journal of bipolar disorders*, 5:24, December 2017
21. Christian Fuchsberger, Jason Flannick, Tanya M Teslovich, Anubha Mahajan, Vineeta Agarwala, Kyle J Gaulton, Clement Ma, Pierre Fontanillas, Loukas Moutsianas, Davis J McCarthy, Manuel A Rivas, John R B Perry, Xueling Sim, Thomas W Blackwell, Neil R Robertson, N William Rayner, Pablo Cingolani, Adam E Locke, Juan Fernandez Tajes, Heather M Highland, Josee Dupuis, Peter S Chines, Cecilia M Lindgren, Christopher Hartl, Anne U Jackson, Han Chen, Jeroen R Huyghe, Martijn van de Bunt, Richard D Pearson, Ashish Kumar, Martina Müller-Nurasyid, Niels Grarup, Heather M Stringham, Eric R Gamazon, Jaehoon Lee, Yuhui Chen, Robert A Scott, Jennifer E Below, Peng Chen, Jinyan Huang, Min Jin Go, Michael L Stitzel, Dorota Pasko, Stephen C J Parker, Tibor V Varga, Todd Green, Nicola L Beer, Aaron G Day-Williams, Teresa Ferreira, Tasha Fingerlin, Momoko Horikoshi, Cheng Hu, Iksoo Huh, Mohammad Kamran Ikram, Bong-Jo Kim, Yongkang Kim, Young Jin Kim, Min-Seok Kwon, Juyoung Lee, Selyeong Lee, Keng-Han Lin, Taylor J Maxwell, Yoshihiko Nagai, Xu Wang, Ryan P Welch, Joon Yoon, Weihua Zhang, Nir Barzilai, Benjamin F Voight, Bok-Ghee Han, Christopher P Jenkinson, Teemu Kuulasmaa, Johanna Kuusisto, Alisa Manning, Maggie C Y Ng, Nicholette D Palmer, Beverley

Balkau, Alena Stančáková, Hanna E Abboud, Heiner Boeing, Vilmantas Giedraitis, Dora Raj Prabhakaran, Omri Gottesman, James Scott, Jason Carey, Phoenix Kwan, George Grant, Joshua D Smith, Benjamin M Neale, Shaun Purcell, Adam S Butterworth, Joanna M M Howson, Heung Man Lee, Yingchang Lu, Soo-Heon Kwak, Wei Zhao, John Danesh, Vincent K L Lam, Kyong Soo Park, Danish Saleheen, Wing Yee So, Claudia H T Tam, Uzma Afzal, David Aguilar, Rector Arya, Tin Aung, Edmund Chan, Carmen Navarro, Ching-Yu Cheng, Domenico Palli, Adolfo Correa, Joanne E Curran, Denis Rybin, Vidya S Farook, Sharon P Fowler, Barry I Freedman, Michael Griswold, Daniel Esten Hale, Pamela J Hicks, Chiea-Chuen Khor, Satish Kumar, Benjamin Lehne, Dorothée Thuillier, Wei Yen Lim, Jianjun Liu, Yvonne T van der Schouw, Marie Loh, Solomon K Musani, Sobha Puppalapati, William R Scott, Loïc Yengo, Sian-Tsung Tan, Herman A Taylor, Farook Thameem, Gregory Wilson, Tien Yin Wong, Pål Rasmus Njølstad, Jonathan C Levy, Massimo Mangino, Lori L Bonnycastle, Thomas Schwarzmayr, João Fadista, Gabriela L Surdulescu, Christian Herder, Christopher J Groves, Thomas Wieland, Jette Bork-Jensen, Ivan Brandslund, Cramer Christensen, Heikki A Koistinen, Alex S F Doney, Leena Kinnunen, Tõnu Esko, Andrew J Farmer, Liisa Hakaste, Dylan Hodgkiss, Jasmina Kravic, Valeriya Lyssenko, Mette Hollensted, Marit E Jørgensen, Torben Jørgensen, Claes Ladenvall, Johanne Marie Justesen, Annemari Käräjämäki, Jennifer Kriebel, Wolfgang Rathmann, Lars Lannfelt, Torsten Lauritzen, Narisu Narisu, Allan Linneberg, Olle Melander, Lili Milani, Matt Neville, Marju Orho-Melander, Lu Qi, Qibin Qi, Michael Roden, Olov Rolandsson, Amy Swift, Anders H Rosengren, Kathleen Stirrups, Andrew R Wood, Evelin Mihailov, Christine Blancher, Mauricio O Carneiro, Jared Maguire, Ryan Poplin, Khalid Shakir, Timothy Fennell, Mark DePristo, Martin Hrabé de Angelis, Panos Deloukas, Anette P Gjesing, Goo Jun, Peter Nilsson, Jacquelyn Murphy, Robert Onofrio, Barbara Thorand, Torben Hansen, Christa Meisinger, Frank B Hu, Bo Isomaa, Fredrik Karpe, Liming Liang, Annette Peters, Cornelia Huth, Stephen P O'Rahilly, Colin N A Palmer, Oluf Pedersen, Rainer Rauramaa, Jaakko Tuomilehto, Veikko Salomaa, Richard M Watanabe, Ann-Christine Syvänen, Richard N Bergman, Dwaipayan Bharadwaj, Erwin P Bottinger, Yoon Shin Cho, Giriraj R Chandak, Juliana C N Chan, Kee Seng Chia, Mark J Daly, Shah B Ebrahim, Claudia Langenberg, Paul Elliott, Kathleen A Jablonski, Donna M Lehman, Weiping Jia, Ronald C W Ma, Toni I Pollin, Manjinder Sandhu, Nikhil Tandon, Philippe Froguel, Inês Barroso, Yik Ying Teo, Eleftheria Zeggini, Ruth J F Loos, Kerrin S Small, Janina S Ried, Ralph A DeFronzo, Harald Grallert, Benjamin Glaser, Andres Metspalu, Nicholas J Wareham, Mark Walker, Eric Banks, Christian Gieger, Erik Ingelsson, Hae Kyung Im, Thomas Illig, Paul W Franks, Gemma Buck, Joseph Trakalo, David Buck, Inga Prokopenko, Reedik Mägi, Lars Lind, Yossi Farjoun, Katharine R Owen, Anna L Gloyn, Konstantin Strauch, Tiinamaija Tuomi, Jaspal Singh Kooner, Jong-Young Lee, Taesung Park, Peter Donnelly, Andrew D Morris, Andrew T Hattersley, Donald W Bowden, Francis S Collins, Gil Atzmon, John C Chambers, Timothy D Spector, Markku Laakso, Tim M Strom, Graeme I Bell, John Blangero, Ravindranath Duggirala, E Shyong Tai, Gilean McVean, Craig L Hanis, James G Wilson, Mark Seielstad, Timothy M Frayling, James B Meigs, Nancy J Cox, Rob Sladek, Eric S Lander, Stacey Gabriel, Noël P Burtt, Karen L Mohlke, Thomas Meitinger, Leif Groop, Goncalo Abecasis, Jose C Florez, Laura J Scott, Andrew P Morris, Hyun Min Kang, Michael Boehnke, David Altshuler, and Mark I McCarthy. The genetic architecture of type 2 diabetes. *Nature*, 536:41–47, August 2016

22. Yikwon Kim, MeeJoo Kang, Dohyun Han, Hyunsoo Kim, KyoungBun Lee, Sun-Whe

- Kim, Yongkang Kim, Taesung Park, Jin-Young Jang, and Youngsoo Kim. Biomarker development for intraductal papillary mucinous neoplasms using multiple reaction monitoring mass spectrometry. *Journal of proteome research*, 15:100–113, January 2016
23. Jaeyong Yee, Yongkang Kim, Taesung Park, and Mira Park. Genetic association analysis of fasting and 1- and 2-hour glucose tolerance test data using a generalized index of dissimilarity measure for the korean population. *Genomics & informatics*, 14:181–186, December 2016
 24. Jaeyong Yee, Yongkang Kim, Taesung Park, and Mira Park. Using the generalized index of dissimilarity to detect gene-gene interactions in multi-class phenotypes. *PloS one*, 11:eo158668, 2016
 25. Jae In Jung, Eun Ji Kim, Gyoo Taik Kwon, Yoo Jin Jung, Taesung Park, Yongkang Kim, Rina Yu, Myung-Sook Choi, Hyang Sook Chun, Seung-Hae Kwon, Song Her, Ki Won Lee, and Jung Han Yoon Park. β -caryophyllene potently inhibits solid tumor growth and lymph node metastasis of b16f10 melanoma cells in high-fat diet-induced obese c57bl/6n mice. *Carcinogenesis*, 36:1028–1039, September 2015
 26. Min-Seok Kwon, Yongkang Kim, Seungyeoun Lee, Junghyun Namkung, Taegyun Yun, Sung Gon Yi, Sangjo Han, Meejoo Kang, Sun Whe Kim, Jin-Young Jang, and Taesung Park. Integrative analysis of multi-omics data for identifying multi-markers for diagnosing pancreatic cancer. *BMC genomics*, 16 Suppl 9:S4, 2015
 27. Seungyeoun Lee, Yongkang Kim, Min-Seok Kwon, and Taesung Park. A comparative study on multifactor dimensionality reduction methods for detecting gene-gene interactions with the survival phenotype. *BioMed research international*, 2015:671859, 2015
 28. Hanjun Park, Woojin Park, and Yongkang Kim. Manikin families representing obese airline passengers in the us. *Journal of healthcare engineering*, 5:479–504, 2014
 29. Sungyeon Hong, Yongkang Kim, and Taesung Park. Practical issues in screening and variable selection in genome-wide association analysis. *Cancer informatics*, 13:55–65, 2014

Summary statistics for the citation (Nov, 18)

(Based on google scholar: <https://scholar.google.com/citations?user=GV8leIMAAAAJ&hl=ko&oi=ao>)

1. No. total citation : 1,331
2. H index : 13
3. i10 index : 17

Book Chapters

1. Sunmee Kim, Sungyoung Lee, Ramsey L. Cardwell, Yongkang Kim, Taesung Park, and Heungsun Hwang. *Quantitative Psychology: 84th Annual Meeting of the Psychometric Society, Santiago, Chile*, chapter An Application of Regularized Extended Redundancy Analysis via Generalized Estimating Equations to the Study of Co-occurring Substance Use Among US Adults, pages 365–376. Springer Proceedings in Mathematics & Statistics, 2020

2. Yongkang Kim and Taesung Park. *Pancreatic Cancer*, chapter Develop Nomogram to Predict Malignancy of Intraductal Papillary Mucinous Neoplasm, pages 23–32. Humana Press, 2018

Presentations

1. Kim, Y., Balbona, J., & Keller, M.C. (2021). Determine the assortative mating pattern of the phenotypes by using covariance structures of the haplotypic polygenic scores, BGA 2021
2. Kim, Y., Balbona, J., & Keller, M.C. (2020). Bias and precision of parameter estimates from models using polygenic scores to estimate environmental and genetic parental influences, BGA 2020
3. Kim, Y., Lee, S., Choi, S., & Park, T. (2018). Hierarchical Structural Component Analysis of microRNA-mRNA Integration Analysis, The sixteenth Asia Pacific bioinformatics conference
4. Ka, J., Lee, J., Kim, Y., & Park, T. (2018) Meta-Qtest: Meta-Analysis of Quadratic Test for Rare Variants, The TBC/BIOINFO 2018
5. Jun, J., Kim, Y., Park, T. et al., Analysis of Significant Protein Abundance from Multiple Reaction-Monitoring Data, GIW 2018
6. Kim, Y., Kim, G., Kwon, MS., & Park, T. (2016). Quality control plot for high dimensional omics data, IEEE BIBM
7. Kim, Y., et al. (2015). Developing cancer prediction model based on stepwise selection by AUC measure for proteomics data, IEEE BIBM
8. Kim, Y. & Park, T. (2014) Robust GMDR method for detecting gene-gene interactions in GWAS, Spring conference on Korea statistical society
9. Kim, Y., & Park, T. (2014) Identifying differentially expressed genes for ordinal phenotypes, IEEE BIBM
10. Hong S., Kim Y., & Park, T. (2013), Practical issues for screening and variable selection method in a Genome-Wide Association Analysis, Translational Bioinformatics
11. Bang, S-J., Kim Y-G. & Park, T. (2012), Joint Selection of SNPs for Improving Prediction in Genome-wide Association Studies, IEEE BIBM