Mixed models for correlated compositional data: applied to microbiome studies in Indonesia

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List of Publications

Martin I, Tissier RLM and Houwing-Duistermaat JJ. The joint mixture model for the effect of multivariate count on the continuous outcome subject to measurement error. Submitted for publication.

Martin I, Kaisar MMM, Wiria AE, Hamid F, Djuardi Y, Sartono E, Rosa BA, Mitreva M, Supali T, Houwing-Duistermaat JJ, Yazdanbakhsh M, Wammes LJ. The effect of gut microbiome composition on human immune responses - interference of helminth infections. Submitted for publication.

Martin I, Uh HW, Supali T, Mitreva M, Houwing-Duistermaat JJ (2019). The mixed model for the analysis of a repeated-measurement multivariate count data. *Statistics in Medicine*, doi: 10.1002/sim.8101

Martin I*, Djuardi Y*, Sartono E, Rosa BA, Mitreva M, Houwing-Duistermaat JJ, Yazdanbakhsh M (2018). Dynamic changes in human-gut microbiome in relation to a placebo-controlled anthelminthic trial in Indonesia. *PLoS Neglected Tropical Diseases*, 12(8):e0006620.

Tahapary DL, de Ruiter K, **Martin I**, Brienen EAT, van Lieshout L, Djuardi Y, Djimandjaja CC, Houwing-Duistermaat JJ, Soewondo P, Sartono E, Supali T, Smit JW, Yazdanbakhsh M (2017). Effect of anthelmintic treatment on leptin, adiponectin, and leptin to adiponectin ratio: a randomized controlled trial. *Nutrition & Diabetes.* 7(10):e289.

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2 diabetes: a cluster-randomized placebo controlled SUGARSPIN trial in Nangapanda, Flores, Indonesia. *BMC Infectious Diseases*, 15:133.

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Curriculum Vitæ

Ivonne Martin was born on October, 15th 1982 in Jakarta, Indonesia. She studied Mathematics for her undergraduate in Parahyangan Catholic University where she also serves as teaching assistant during her last two years of study. After graduating in 2005, she was appointed as a lecturer in her alma mater for three years before she was awarded a scholarship from Directorate General of Higher Education (DIKTI) to pursue her Master degree in applied mathematics in Delft University of Technology. She graduated in 2010 with her thesis as a collaboration study between Academic Medical Centre and Department of Statistics in Delft University of Technology to investigate the performance of a newly developed hazard estimator for patients with myocardial infarction.

In 2013, she attended a workshop in Jakarta in which she was selected as a PhD candidate for a collaborative research project between Medical Faculty of Universitas Indonesia (FKUI) and Leiden University Medical Centre (LUMC), funded by The Royal Netherlands Academy of Arts and Sciences (KNAW), specifically the Scientific Programme Indonesia-Netherlands (SPIN). Her PhD fellowship was awarded by the Directorate of Higher Education, Republic of Indonesia (2013-2016) and Leiden University (2017). During her training, she presented her work in the International Biometric Society Channel Meeting in 2015 as well as at the International Biometric Conferences in Canada and Barcelona. In 2016, she received a travel grant from Leiden University Fund to present her work in XXVIII International Biometric Conference in Canada.

After completing her Doctoral study, she will expand her research in the area of mixed and joint modeling.

Acknowledgement

I would like to express my enormous gratitude to my promotores: Prof. Jeanine Houwing-Duistermaat and Prof. Maria Yazdanbakhsh for the opportunity to be involved in this collaboration project. Both of their immense knowledge, constructive criticism, and perpetual encouragement have driven me to excel in research. I would like to thank people in the SugarSPIN project for their guidance during this research work: Prof. Taniawati Supali, Prof. Johannes W.A. Smit, Dr. Erliyani Sartono as well as Dicky Tahapary and Karin de Ruiter who shared the PhD journey under this collaboration project.

I would like to thank all colleagues from Department of Biomedical Data Sciences with whom I learned about statistics and research. In particular, people from the group of Statistical Genetics: Dr. Hae-Won Uh, Dr. Stefan Bohringer, Dr. Mar Rodriguez-Girondo, Dr. Roula Tsonaka, Dr. Bart Mertens, Dr. Kate Xu, Brunilda Balliu, Renaud Tissier, Alexia Kakourou, Angga Fuady, Said el Bouhaddani, Giorgios Bartzis for their generous input towards my work and from whom I learn to become a team member. Also, I thank other members of the department who have shared their knowledge through formal and informal meetings: Ron Wolterbeek, Mitra Ebrahimpoor, Ningning Xu, and Mirko Signorelli. It is also through the Department of Parasitology, I have learned to improve my understanding of applying statistics into biological field. Many thanks to Yenny Djuardi, Linda Wammes, Dian Amaruddin, Mikhael Manurung, and Koen Stam.

I am grateful to several good friends and acquaintances who remembered me in their prayers for the ultimate success. In the end, life as PhD will be much more difficult without all of these people: Maria Kaisar, Abena Amoah, Chare Virakkun, Hari Nugroho and Lionov. I consider myself nothing without them. They gave me enough moral support, encouragement and motivation to accomplish the personal goals. I thank Ibu Hedi Hinzler not only for her hospitality but also her inspiring words that she has shared during my last phase of PhD.

A word of appreciation is not enough for my parents and brother for their unconditional and unwavering support throughout these years. This thesis is dedicated to them.