Genetic regulatory networks inference: modeling, parameters estimation & model validation
Fomekong Nanfack, Y.

Citation for published version (APA):
A long journey has been since the day I have started my postgraduate research program in order to obtain my doctorate degree. I still remember the day I came for an interview in Amsterdam. I met Dr Jaap A. Kaandorp with whom I had a very engaging discussion. That day, I was not sure to really seize the magnitude of the challenges to address. Still, as soon as I received the offer of appointment I fought with the Swiss and Dutch administrations to obtain a visa, packed my luggage and moved to Amsterdam. This was the starting point of an intense learning experience: I have been constantly working and learning on wide variety of matters – the main challenge being to learn to be a good scientist. I know now that if one can acquire qualities and skills, being a good scientist is a lifetime and never ending exercise. I also know that learning to be a good scientist is a lost attempt if you do not have good mentors and companions at work and in life: I would not have achieved my objectives over these four years and half without the people who have guided me and accompanied me during this exciting period of my life.

First off all, I would like to thank my promoter, Prof. Dr. Peter Sloot, head of the Computational Science department at the University of Amsterdam for accepting me as a PhD student in his group. I have always been impressed by his ability to understand and propose solutions although his agenda was taking him all around the world.

I am endlessly thankful to my daily supervisor Dr Jaap A. Kaandorp. I think I was very fortunate to have such a supervisor. Besides being an excellent scientist, Jaap is also a true humanist who sincerely cares about the well being of his collaborators. Jaap has introduced me to the complex world of computational biology and has communicated me his passion for biology. He taught me so much on a wide range of issues. Although I was at the early stage off my career, Jaap has always respected my ideas and encouraged me to pursue my
convictions. He has been thoughtful, patient and also pushy when necessary. One of the sentences I will never forget from Jaap is probably: "when is the paper ready?" Well, his persistence has paid off and once again I would like to express him my infinite gratitude.

This research project would have not been possible without Joke Blom. Jaap and Joke wrote a research proposal that allowed me to hit the ground running, which is always a nice way to start. Joke is a very meticulous scientist who really cares about details. Her sharpness, guidance and generosity considerably helped me achieved my goals.

The arrival of Dr Marten Postma has considerably changed and improved the course of my research. I am infinitely thankful to Marten who helped me carry on my research project and infinitely brought new perspectives. We have intensively collaborated, and shared so many thoughts. As a result working with him has made a huge difference on the orientation of my thesis. If there is something I will certainly remember from him is the "Quick and dirty!" as he used to say while keeping efficiency as a priority! Showing results is a concern in the life of a scientist. What Marten adds to that as a main motivation is the mystery behind the box.

I would also like to thank many other friends and collaborators who have been involved in my research at different levels. Thanks to Maksat Ashyraliyev with whom I worked and shared the ups and downs of the project. This work was considerably improved with the help of Prof Chris Klassen and Dr Nadia Lalam. Many thanks to Dr Johannes Jaeger A.k.A Yogi, for his encyclopedic knowledge regarding Drosophila gap gene regulatory network. Such a work would have not been possible without our Russian collaborators, from the FlyEx team conducted by Prof Maria Samsonova, who provided us with valuable information. And of course, Prof John Reinitz, a bright mind that I like to call the "gap gene guru". Within the computational science group, I would like to thank all those who have supported me, providing me advice and encouraging me constantly: Alfons, Simon, Rob, Dick and Breanndan. My life in the Computational Science group has largely benefited from the support of all the staff members and students who made the hard long working days a little bit more pleasant. Special thanks to Erik for his kind words and precious help in the daily administrative issues which, we all know can be sources of hard ache. Thanks to all with whom we shared coffee and lunch, past and present colleagues: the singing Alexy, Alessia, Elena, Nol, Derek, Lilit, Qiu, Gokhan, Alfonso, Syed, Michael, Drona, Evghenii, Max, Eric, David, Shen, Goah. Thank you very much for your company.

I would also like to thank my basketball team mates from Bcschrobbelaar with whom I had such a great time (balling and the partying). Also, the football guys from NiKKEF, Shell and the UvA (Niels, Gordon, Alex, Jurgen, Victor, Pierre).
From day one to the end, I have been accompanied with some fantastic guys who really positively contributed in my daily life and brought the joy and company I was missing. These guys became what I call my Dutch family. Thanks to Lisa, my great friend Tom and the Purmerend family, Tim for your energetic attitude. Thanks Carlos for your communicative enthusiasm, Maciej, my favorite (and only) squash partner. Jordi. There is so much to say, but to keep it short, thank you. We have both been through the same things, shared the same joys and frustrations, and in a brotherly way supported each other. I wish you the best. You deserve it! I am also infinitely grateful to Alfredo - my Mexican brother. We share so much together and believe in the same things. Thanks to Heidi and you for providing me the second home I was looking for. Thomas. You are probably the one who knows me the best in Amsterdam. I would like to thank you for your true friendship. You have supported me and always found the words to encourage me.

I have been continuously traveling during my life. I would like to thank my friends who have always been supporting and encouraging me regardless the distance. Severine, Raphaëlle, Sigrid, Bérène, Rui, Patrick, Armand, Charles, Serge, Jean-Louis, Riccardo, Carlos, Lansine. Thanks to you guys for your friendship!

Most importantly, deeply from my heart I am infinitely grateful to my family.

Je remercie ma famille en Europe:

Noël, je te présente mes plus sincères remerciements pour m’avoir ouvert l’accès aux meilleures écoles européennes. Je te dois d’être devenu l’homme dont notre famille est fière aujourd’hui. Valérie, je te remercie de la générosité avec laquelle tu m’offres la famille et l’ambiance camerounaises si loin de chez nous. Alain, Colette, Quentin, merci de m’avoir accueilli, accepté comme un fils et un frère. Vous m’avez ouvert votre porte et vos coeurs. Les moments passés avec vous sont toujours pour moi source de réconfort, de bonheur et d’ Inspiration.

Au Cameroun, je remercie infiniment mon frère Patrick ainsi que mes soeurs, Honorine, Christelle et Kelly: vous êtes mes racines et portez mes espoirs ! Papa et maman, c’est à vous que je dédie ma thèse: pour vous j’ai donné le meilleur de moi dans cette œuvre. Cette thèse est le fruit de mes efforts conjugués aux sacrifices auxquels vous avez consentis pour moi. Vos peines et vos joies ont été mon moteur au quotidien, votre fierté et votre confiance ma plus grande motivation.

The most difficult part of conducting my PhD was not the scare of not obtaining good results, but the idea of disappointing the one who mostly believes in me. Such a study would have been insurmountable without her support, trust and love. Marika, I have asked a lot from you. You have accepted to let me fly away in Amsterdam while you were in Geneva. I know it was difficult and i
don’t know how i can express my gratitude. During these four years and half, your love was a true inspiration and source of comfort and happiness. With all my love, thank you.

A thesis is not only a scientific work, it is a life experience. One might loose some realities while concentrating on research priorities. I seize the opportunity of this major work to acknowledge a great person who, the same as me, crossed the world to learn and become a scientist, and with whom I collaborated: Jiangjuin. May he rest in peace.
Yves