

Arno den Toom

PERSONAL DETAILS

ir. Leonardus Arnoldus den Toom
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The Netherlands

Nationality: Dutch
Date of Birth: September 7th, 1988
Place of Birth: Broek op Langedijk, the Netherlands
Gender: Male

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(Larger list of techniques, skills and courses)

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EDUCATION

2014-2016 M.Sc. in Plant Biotechnology (Wageningen UR): *Specialisation Plant Breeding*

2011-2014 B.Sc. Biotechnology (INHolland): *Specialisation Green*

2011-2011 European Space Agency University: *Exobiology, Evolution of the Biosphere*

(e)Courses	Lean + Six Sigma	(Lynda.com)
	(e-Learning) Project Management	(PMI PMBOK® 5 th Edition)
	Project Management, the essentials	(TwentyEighty)
	Earth Observation from Space I & II	(European Space Agency)
	Management and Leadership I & II	(Open University)
	Beginning programming with Python	(Open University)
	Sustainable Soil Management	(Wageningen UR)
	Soils	(Open University)
	Monitoring Climate from Space	(European Space Agency)
	Photosynthesis & LED	(HAS Hogeschool)
	Astronomy	(VU University)

WORK & RESEARCH EXPERIENCE

2016 till current **Syngenta Seeds B.V. – Andijk / Enkhuizen, the Netherlands**

My role, as specialist germplasm quality, at Syngenta Flowers' Research & Development includes – through project management activities – organizing, controlling and/or executing purity testing, quality experiments and plant selections. Additionally, I support various groups (breeders, processes, supply chain, operations, and technology support) on various fronts within the organization such as mediation, coaching and technology implementation.

Keywords: controlling & coordinating; project management; organization; technology.

2015 till 2016 **Plant Breeding – Wageningen University and Research Centre (Guest Employee)**

I have been made a guest employee at the department of Plant Breeding of the Wageningen University and Research Centre. I can participate in meetings, lectures and other group activities. This is arranged for my personal development to learn and create new ideas with regards to plant breeding.

- 2015 till 2016** **Plant Research International & Wageningen University and Research Centre**
M.Sc. Thesis
 For my M.Sc. thesis, I investigated the effects of saline soil on the growth performance and yield of *Chenopodium quinoa* (non-bitter varieties). This was completed at the Wageningen University and Research Centre's Unifarm with the collaboration of Plant Research International.
- 2015 till 2016 & 2013 till 2014** **European Space Agency – European Space Research and Technology Centre (MoU)**
 For my B.Sc. graduation internship and M.Sc. internship, I have gained a position at the Dutch Experiment Support Center (VU University *Amsterdam*) which has granted me a Memorandum of Understanding at the European Space Agency – European Space Research and Technology Centre. Part of this has been the following:
- ✚ Travel to Madrid to consult and learn new techniques
 - ✚ Recreate and start a plant lab similar to Madrid at the European Space Agency
 - ✚ Execute the experiments and analyze the data
 - ❖ In Madrid and at the European Space Agency
 - ✚ Create a qRT-PCR at the Academic Centre for Dentistry Amsterdam
 - ✚ Evaluate the difference between two gravity simulators (statistics)
 - ✚ Investigate the progressive effects of simulated micro-, partial-, and hyper- gravity on *Arabidopsis thaliana*.
- 2010 till 2013** **Royal Netherlands Institute for Sea Research TEXEL, the Netherlands**
 I have worked at the Brussaard Laboratory for Marine Viral Ecology Research at the Biological Oceanographic department of the Royal Netherlands Institute for Sea Research (location Texel, the Netherlands). Among other activities, my position included:
- ✚ Internship regarding the competition of *Phaeocystis globosa* viruses for an algal host.
 - ✚ Research to see the effects of CO₂ concentration on the diatom *Chaetoceros tenuissimus*.
 - ✚ Maintaining phytoplankton cultures in Static light, Dynamic light and Chemostats.
 - ✚ General (lab) maintenance

Publications

- Planned 2020** Vivianna Jaramillo-Roman, Leonardus A. den Toom, C. Gerard van der Linden & Robert E.N. van Loo (2020). *The effect of salinity on plant growth and grain production of non-bitter varieties of Chenopodium quinoa*.
- Submitted 2018** Aránzazu Manzano, Raúl Herranz, Leonardus A. den Toom,, Sjoerd te Slaa Guus Borst, Martijn Visser, F. Javier Medina, Jack J.W.A. van Loon (2018). *Novel, Moon and Mars, partial gravity simulation paradigms and their effects on the balance between cell growth and cell proliferation during early plant development..*