

Arno den Toom

PERSONAL DETAILS

ir. Leonardus Arnoldus den Toom
Dorpsstraat 208
1721 BV Broek op Langedijk
The Netherlands

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

LinkedIn address:
<https://nl.linkedin.com/in/ladentoom>
(Larger list of techniques, skills and courses)

Telephone number: +31 6 215 137 99
e-Mail: arno@dentoom.org
Website: www.dentoom.org

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	Big Data: I & II	(Queensland University of Technology)
	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)
	Moons	(University of Birmingham)
	Digital Storytelling	(Open University)
	Elements of Renewable Energy	(Open University)
	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 a *specialist germplasm quality*, at the Syngenta Flowers Research & Development includes (full) grow-out of both (grand)parent and commercial materials for purity (true-to-type) testing and new selections. This is done for material received from seeds, cuttings and tissue culture. Additionally, I support the technology & processing group in the acquisitions and implementation of new 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 plant lab like 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

Symposia

- 2015**
 Presented & ESA Student Award
 European Low Gravity Research Association. 22nd *Symposium & General Assembly*. Corfu, Greece. Presented: *Progressive effects from simulated micro gravity to hyper gravity on cell growth and cell proliferation in the Brassicaceae family*
- 2014**
 Attended
 Netherlands Society for Plant Biotechnology and Tissue Culture. *Autumn Symposium*. Wageningen, The Netherlands

Publications

All Publications are planned and may be changed

- Planned 2018** Vivianna Jaramillo-Roman, Leonardus A. den Toom, C. Gerard van der Linden & Robert E.N. van Loo (2015). *The effect of salinity on plant growth and grain production of non-bitter varieties of Chenopodium quinoa*.
- Planned 2017** Arancha Manzano, Leonardus A. den Toom, Guus Borst, Martijn Visser, Alan Dowson, Miguel A. Valbuena, F. Javier Medina, Raúl Herranz, Jack J.W.A. van Loon (2017). *Progressive effects from simulated micro gravity to hyper gravity on cell growth and cell proliferation in the Brassicaceae family*.
- Planned 2016** Jack J.W.A. van Loon, Leonardus A. den Toom, Arancha Manzano, Raúl Herranz, F. Javier Medina, Guus Borst, Martijn Visser (2016). *Partial gravity Simulation*.

References

Dr. Ing. J.J.W.A. (Jack) van Loon. *Dutch Experiment Support Center.* + 31(0)653700944

ACTA, Gustav Mahlerlaan 2004, 1081 LA Amsterdam, The Netherlands

ESA/ESTEC TEC-MMG, Keplerlaan1, 2200 AG Noordwijk, The Netherlands

Prof.Dr. C.P.D. (Corina) Brussaard. *Marine Virus Ecology Research Group.* + 31(0)222369513

NIOZ, Landsdiep 4, 1797 SZ 't Horntje (Texel), The Netherlands

Dr. E.N. (Robert) van Loo. *Plant Research International.* + 31(0)317480879

WUR, Droevendaalsesteeg 1, 6708 PB Wageningen, The Netherlands