T. Troost
Obrechtstraat 221
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Curriculum Vitae of Tineke Troost

Personal Data

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Date/Place of birth	03/07/76, Assen, the Netherlands
Nationality	Dutch
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Education

1988 – 1994 **Christelijke Scholengemeenschap Assen (CSA),** VWO.
Dutch A levels

1994 – 2000 **Wageningen University and Research-centre (WUR),** Biology study.
Specialization: theoretical / mathematical biology

Practical period **Centro Internacional de la Papa (CIP)** Peru, Theoretical production ecology.
Subject: Spatial variation in Late Blight severity in potato crops in relation to climate and crop management (Prof. dr. M. Kropff)

A pilot study was carried out to study the relationships between fungus growth (Phytophthora infestans) and meteorological conditions. Data were collected through interviews with local farmers and crop evaluations in the field.

Graduation Project I **Department of Theoretical Production Ecology (TPE),** Applied plant ecology and weed science (Prof. dr. M. Kropff)
Subject: Modeling sorghum growth as affected by *Striga.*

The effects of Striga*, a plant parasite, on sorghum growth were investigated with simulation studies on an existing plant model that was adjusted to sorghum growth. The model was tested against data that were collected in photosynthesis-experiments.*

Graduation Project II **Department of Experimental Animal Morphology and Cell Biology (EDC),** Functional animal morphology (Prof dr. J.W.M. Osse)
Subject: The role of physical laws in the development of the circulatory system of vertebrate embryos.

An overview was made of the physical laws that are involved in the development of the circulatory system of vertebrate embryos.

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Jobs

02/2001 – 01/2002 **Netherlands Institute for Fisheries Research (RIVO),** Junior scientist.

Project description The distribution of sardinella catches in the Mauritanian upwelling area.
In order to study the distribution of sardinella (S. aurita), catch data collected from Dutch fishermen were combined with meteorological data from satellite-images (in cooperation with Las Palmas University). GIS manipulations were used to prepare data for statistical analysis.

01/2002 – 12/2005 **Vrije Universiteit, Amsterdam (VU),** PhD-project.
Faculty of Earth and Life Sciences,
Dept. of Theoretical Biology,
Promotor: Prof. dr. S.A.L.M. Kooijman

Project description Self-organization of community metabolism
To study the coupling between function and structure of food webs, we allow a simple food web to organize itself into a more complex one. This is done by enabling species to evolve and branch into two or more species. Main approaches are the Dynamic Energy Budget theory (DEB) and the Adaptive Dynamics theory (AD). A short description can be found at: http://www.bio.vu.nl/thb/research/project/current.html#032

International experience

- Young Scientist Summer Program 2004, 3-month period (International Institute for Applied Systems Analysis (IIASA), Austria)

PhD courses

- Introduction to Oceanography (Netherlands Bremen Oceanography Cooperation (NEBROC-ECOLMAS), Germany & NL)
- Writing English for Publication (Taalcentrum VU, NL)
- 2nd International tele-course on Dynamic Energy Budget theory (Vrije University (VU), NL)
- Summerschool on Population Dynamics (Bedlewo, Poland)
- Environmental Research in Context (Netherlands Research School for Socio-Economic Sciences of the Environment (SENSE),NL)
- 4th Winter School on Population Dynamics (Woudschoten, NL)

Presentations and teaching experience

- Annual Meeting of the British Ecological Society 2005 (BES, UK)
- ABC-Symposium “Evolutionary Games” (University of Amsterdam (UvA), NL)
- YSSP Midsummer workshop 2004 (International Institute for Applied Systems Analysis (IIASA), Austria)
- Developing and teaching CHAOS workshop for highschool students
- Alcalá 2nd International Conference on Mathematical Ecology (Alcalá, Spain)
- Assisting at Mathematics courses for undergraduates (Vrije University (VU), NL)
- Assisting at Statistics & Methodology courses for undergraduates (Vrije University (VU), NL)
- Conference on Mathematical Modeling of Population Dynamics (Bedlewo, Poland)
- Annual meeting of the Dutch Society for Theoretical Biology 2003 (NVTB, NL)
- Supervision and instruction of highschool students (Studiecentrum Doorn (Study Centre), NL).

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Publications

T.A.Troost. The distribution of sardinella catches in Mauritania compared to sea surface temperature (SST) data. Netherlands Institute for Fisheries Research (RIVO report, no. C045/02), 2001.

T. A. Troost, B. W. Kooi and S. A. L. M. Kooijman. When do mixotrophs specialize? Adaptive Dynamics theory applied to a dynamic energy budget model. *Mathematical Biosiences*, 193:159-182, 2005a.

T. A. Troost, B. W. Kooi and S. A. L. M. Kooijman. Ecological specialization of mixotrophic plankton in a mixed water column. *American Naturalist*, 166(3): E-article, 2005b.

B. W. Kooi, T. A. Troost and S. A. L. M. Kooijman. Bifurcation analysis can unify ecological and evolutionary aspects of ecosystems. *Theoretical Population Biology*, subm 2005/06/01.

T. A. Troost, U. Dieckmann and B. W. Kooi. Joint evolution of predator body size and prey-size preference. *Evolutionary Ecology*, subm 2005/06/03.

T. A. Troost and J. Van Dam. Evolution of body size in periodic environments. Journal of Animal Ecology, in prep.

T. A. Troost. Self-organization of community metabolism.Thesis, in prep.

General

Languages

- Dutch: excellent
- English: fluent
- Spanish: moderate

Computer experience

- General: Unix & Windows, LaTeX, Word, Excel
- Modeling: Matlab, Fortran , C, Mathematica
- GIS: ArcView, ArcInfo
- Imaging Photoshop, Flash, Lightwave3D
- WWW: Webmaster of the Dutch Society of Theoretical Biology (NVTB)

Hobby's Scuba diving, soccer, digital photo editing and cartoon animation.