

Curriculum vitae

Name: R.W. Tjerkstra (Willem)

Place of birth: Hoorn (N.H., The Netherlands), 11 august 1968

Website: <http://RW.Tjerkstra.org>

Employment

- **15 june - 25 august, 2009: Sculptano**

Sculptano was a small one-man company that offered project management-, consultancy-, and FIB and SEM services. Due to the very bad economic situation at the time, interest in my company was minimal.

- **1 October 2004 - 1 april 2009: Post-doc** in Enschede, in the group Complex Photonic Systems (COPS), led by Prof. Dr. W.L. Vos at the University of Twente,

- Development of photonic crystals in silicon and gallium phosphide in collaboration with Philips and ASML;
- Co-applicant on the project proposal '*Breakdown of universal transparency: is there symmetry between absorption and gain?*', accepted by FOM on April 14th, 2009;
- Daily supervision of a Ph.D. student;
- Copromotor of the above-mentioned Ph.D student;
- Daily supervision of two technicians.
- I also did research on several parts of the project, and was responsible for the project's budget.

- **1 September 2003 - 1 October 2004: Research technician** in Enschede, in the group Complex Photonic Systems (COPS), led by Prof. Dr. A. Lagendijk at the University of Twente,

- Research and development of photonic materials, in particular in gallium phosphide.

- **1 April 2001 - 1 March 2003: Postdoc** in Enschede, in the group Transducers Science and Technology of the MESA⁺ Research Institute of the University of Twente, led by Prof. Dr. M. Elwenspoek. The project was led by Dr Ir. G.J.M. Krijnen.
 - Development of a micromachined shutter structure for a so-called 'active nanostencil' (a micromachined shadow mask).
 - Continuation in a project with Prof. Dr. W.L. Vos (Complex Photonic Systems, UT) concerning the development of a photonic crystal in silicon using micromachining
 - Supervising a Ph.D. student working on isotropic etching of silicon

- **1 December 1999 - 1 March 2001: Postdoc** in Utrecht, in the group Condensed Matter, led by Prof. Dr. J.J. Kelly at the University of Utrecht,
 - Research into the electrochemical deposition and etching of semiconductors for making photonic crystals, in collaboration with Dr. Willem Vos of the group Waves in Complex Media, led by Prof. Dr. A. Lagendijk at the University of Amsterdam.

- **1 July 1995 - 23 September 1999: Ph.D. research**
 - Title thesis: *Isotropic etching of silicon in fluoride containing solutions as a tool for micromachining*. This research was carried out at the MESA⁺ research institute in the group Micromechanics, led by Prof. Dr. M. Elwenspoek at the University of Twente (Enschede, The Netherlands). Daily supervisor was Dr. J.G.E. Gardeniers. Promotor was Prof. Dr. Ir. A. van den Berg, Professor of Miniaturized (Bio) Chemical Analysis Systems. Copromotor was Prof. Dr. J.J. Kelly.

References

References are available on request.

Education/courses

- **September 1989 - 26 June 1995: M. Sc. in Chemistry** at the University of Utrecht
- Graduated in the group Condensed Matter, led by Prof. Dr. J.J. Kelly, on a reflectometric study of the adsorption and desorption of Pd-stabilized PVP-sols on SiO₂; worked for this at the Philips Natuurkundig Laboratorium, December 1993 until July 1994
- Attended a 6 months practical and theoretical course on Crystal- and Structural Chemistry (Molecular Mechanics)
- Attended a 3 months practical and theoretical course on Semiconductor Electrochemistry
- Attended the Introduction to the course Management and Organization, January/February 1995 at the U.U.
- Attended the Introduction to the course Policy and Organization, March/April 1995 at the U.U.

- *V.W.O.* from 1987 until 1989
- *H.A.V.O.* from 1982 until 1987

Hobbies

- **Writing stories and novels**
 - See <http://www.tjerkstra.org>
- **Photographing**
 - See <http://www.flickr.com/photos/tsaszymborska>
- **Playing adventure games**

- See <http://www.adventuregamers.com/article/id,149>