

Bram Stoeller

Curriculum Vitae



Personal

Full name:	Bram Stoeller	Address:	Zwaluwstraat 170
Date of birth:	January 30th, 1985		6541 NP Nijmegen
Nationality:	Dutch		The Netherlands
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Specialties

I am a researcher and developer in **artificial intelligence** with a strong bias towards computer vision. I specialise in state of the art algorithms within **computer vision, machine learning, pattern recognition**, classification, genetic programming, path planning, data mining etc. In addition to this technical education I attended and assisted a number of courses in **communication** and **personal leadership**. I have experience in agile development as team member and later as **scrum master**. Although somewhat outdated, you will find more projects, reports and demonstration videos on: www.stoeller.nl/projects.

Employment

01/'15 - 10/'15 **Software Engineer**
Collision detection in 3D metal bending simulations [C++, Tcl/Tk, Bullet]
Radan, CAD CAM software solutions for the sheet metal bending industry, Ede.

07/'14 - 12/'14 **DevOps Engineer**
An automated provisioning framework to manage about 800 (virtual) servers while ensuring (database) integrity. [Python, Django]
Byte, Cluster and Magento hosting for professionals, Amsterdam.

09/'11 - 07/'14 **Vision Software Engineer**
People tracking using ceiling-mounted stereo cameras. [C++, Python, Matlab]
Eagle Vision Systems, Naarden.

06/'07 - 01/'10 **Internships**
Several computer vision projects (See Projects section). [C++, Matlab, Python]
Triple IT, Interfacing new media, Alkmaar.

Education

09/'09 - 06/'12 **MSc Artificial Intelligence, completed**
Specialisation: Intelligent Systems
UvA, University of Amsterdam.

09/'04 - 06/'08 **BSc Artificial Intelligence, completed.**
UvA, University of Amsterdam.

09/'98 - 06/'04 **Pre-university Secondary Education (VWO), completed.**
Profiles: "Nature & Science" and "Nature & Health"
Montessori College, Nijmegen.

Projects and Freelance Jobs

- 05/'13 - now **Scaring birds from helicopter platforms**
An autonomous device scares birds from offshore oil and gas installations using computer vision, deep learning and mirror controlled laser beams.
Kubiko, Scare crow of the Sea, Utrecht/Nijmegen.
- 05/'16 - now **Stitching six camera images to a single spherical image**
It needs color calibration and distortion correction, but the biggest issue to tackle is the parallax effect; how to stitch frames seamlessly with objects at several distances.
Sphericam, The VR 360 video camera, Haren/Haarlem/Ljubljana/Prague.
- 01/'16 - 05/'16 **Mobile tablet app for internal process management**
Administration is time consuming in a manufacturing company; the app selects the right info for each employee at each moment while minimizing the user input.
Contour, High precision sheet metal and mechatronic solutions, Varsseveld.
- 09/'11 - 06/'12 **Colour based people tracking using non-overlapping stereo cameras**
Master thesis; Investigating which appearance model can be used to recognise people using ceiling-mounted stereo cameras.
dr. ir. Leo Dorst and dr. Gwenn Englebienne, UvA; in co-operation with Wojtek Zajdel, PhD, Eagle Vision Systems.
- 01/'10 **Reconstructing a 3D structure from unknown viewpoints**
Create 3D model from several pictures of an object at unknown viewpoints using uncalibrated cameras.
dr. Jan-Mark Geusebroek, UvA; in co-operation with Triple IT.
- 06/'07 **Real-time billboard substitution in soccer matches**
Replacing the billboards at the borders of a soccer field in a live video stream.
dr. ir. Rein van den Boomgaard, UvA; in co-operation with Triple IT.

Extracurricular Courses

- 05/'09 - 06/'09 **Personal Leadership (9 days)**
Amethyst Developing People, Amersfoort.
- 06/'08 **Communication and Social Behavioural Styles (3 days)**
Amethyst Developing People, Amersfoort.

Volunteering

- 09/'09 - now **Co-trainer and Team leader**
I have co-organised several courses in communication and personal leadership.
Amethyst Developing People, Amersfoort
- 01/'06 - 09/'09 **Board member student association**
Student association VIA, University of Amsterdam

Languages

	Writing	Reading	Speaking
Dutch (native)	fluent	fluent	fluent
English	good	good	good

Appendix



Programming Languages

This is a selection of relevant programming languages. Please contact me if you have questions about other programming languages, platforms or APIs.

C++	excellent	HTML	excellent
Python	excellent	CSS	excellent
Django	excellent	PHP	good
Matlab	excellent	Tcl/Tk	good
SQL	excellent	Java	intermediate

Grades MSc Artificial Intelligence - Intelligent Systems

Course	ECTS	grade
Computer Vision AI	6	7.5
Cryptography	6	7.0
Elements of Language Processing and Learning	3	8.5
Game Programming	6	8.5
Geometric Algebra	6	9.0
Information Retrieval	3	7.0
Intelligent Multimedia Systems	6	7.5
Machine Learning: Pattern Recognition	6	7.0
Master Thesis	42	8.0
Multi-Agent Systems	3	7.0
Multi-agent Systems and Autonomous Agents	6	6.5
Profile Project AI-IS	6	8.0
Project AI	6	8.0
Qualitative Reasoning	6	8.5
Visual Analytics	6	8.5

Grades for Artificial Intelligence Projects

Date	Title	ECTS	grade
05/'11	Master Thesis - Model based people tracking using ceiling-mounted stereo cameras	42	8.0
05/'11	Visual Analytics - NS Data Visualisation	6	8.5
06/'10	Profile Project AI-IS - Layered Interactive Sokoban Assistant	6	8.0
05/'10	How can Qualitative Reasoning be used to model the phase transitions of matter?	6	8.5
01/'10	Reconstructing a 3D Structure from Unknown Viewpoints using Uncalibrated Cameras	6	8.0
06/'08	Bachelor Thesis - Artificial Intelligent Go Annotator	6	8.5
06/'07	Real-time Billboard Substitution in a Video Stream of a Soccer Match	6	8.0
01/'07	Learning and Decision making - Data mining Police database	6	8.5
09/'06	Background Estimation	6	8.0
09/'06	Sophomore Project - Quakevolution	6	8.5
06/'05	Searching, Steering and Moving - Making a plotter of the UMI-RTX robot	6	7.5