



ROBIN GROENEVELT, Ph.D.

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IT & WEB INNOVATOR
COMPUTER VISION EXPERT
MATHEMATICAL PROBLEM SOLVER

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Birth | 9 August 1975
Nationality | Dutch

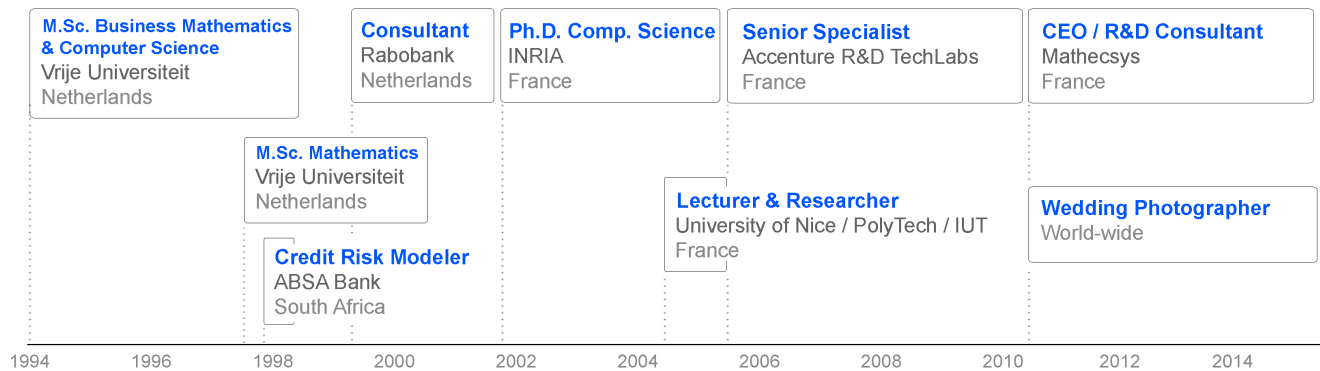
PROFESSIONAL HIGHLIGHTS

- Developed **market leading web, mobile, tablet, and desktop applications**
- Invented **state-of-the-art IT solutions** for cross-industry world leading companies
- Created two computer vision solutions for Coca-Cola (receiving a life-time commission)
- **Top-tier references** in media, blogs, SEO, scientific publications, and social media
- 17+ years of IT experience, R&D and used 60+ mathematical models

PROFILE

- Unique mix of deep and diverse **technical skills**
- **Good communication** and presentation skills
- Strategic, creative and **out-of-the-box** thinker
- Loves challenges and is a **problem solver**
- **Warm-hearted** and a good team player
- Lots of **positive energy**

TIMELINE



LANGUAGES

- Dutch (mother tongue)
- English (mother tongue)
- Danish (mother tongue)
- French (fluent)
- German (moderate)
- Afrikaans (moderate)
- Polish (basic)

PATENTS

- Device for Determining Internet Activity / Social Media Listening: Social Amplitude
- Determination of product display parameters based on image processing
- Determination of inventory conditions based on image processing
- Detection of stock out conditions based on image processing
- Planogram extraction based on image processing

PROFESSIONAL EXPERIENCE

Mathecsys, France

Since 2010

- Founder & Consultant** R&D contractor creating IT innovations. Clients:
- Adways, France - *Interactive videos on web & mobile*
 - Coca-Cola - *Self-monitoring fridges & vending machines*
 - Broad Peak Investment, Singapore - *Due diligence for investors*
 - Trax Technology Solutions, Singapore - *Retail inventory optimization through vision*
 - Adtrackxys & ORTEC, Netherlands - *Optimization of web advertisements*
 - ViaNoveo, France - *Visualization in HTML5 of complex data*
 - Milanamos, Cyprus/France - *Forecasting models*
- #1 Google SEO reference on relevant keywords (object recognition retail)
 - Developed cross-platform web & mobile applications
 - Visit www.mathecsys.com for more details

Accenture R&D Technology Labs, France

2005 to 2010

- Senior Researcher** Developed cutting-edge IT technologies for Accenture's clients and led teams
- *Founded Accenture's flagship patented Social Media CRM offering*
 - *Launched a team of 7+ people and a pilot for Nokia*
 - *Developed (i)phone applications using visual object recognition and augmented reality*
 - *Created and developed computer vision IT projects*
- Researcher** Created IT solutions, built prototypes, and presented to C-level & media 2005 to 2009
- *Created a camera-based inventory monitoring system, to detect what is not present. Built prototypes in Asia, Europe and the US. Patented. Part of a university curriculum*
 - *Designed interfaces and crawled image repositories for object recognition*
 - *Enhanced algorithms to detect recurrent and unusual human behaviour with sensors*
 - *Supervised a team optimising the layout of biometric control gates at airports*

University of Nice-Sophia Antipolis, PolyTech Nice-Sophia, IUT Sophia, France

2004 to 2005

- Lecturer & Researcher** Part-time teaching (300 students) and research position

Rabobank Group, Centre for Applied Mathematics, Netherlands

1999 to 2001

- Consultant** Solved complex business problems with mathematic models. Clients:
- Rabobank - *Pension funds*
 - Rabo International - *Finance*
 - Interpolis Bedrijven - *Insurances*
 - Robeco Group - *Investment funds*
 - Rabofacet - *Call centres*
- *Saved hundreds of thousands of euros with optimization models*
 - *Created an executive intranet planning tool at 400 banks*
- Junior Consultant** Created and implemented mathematical solutions 1999 to 2000

COMPUTER SKILLS

Web:

JavaScript, PHP	■■■■■□
WordPress	■■■■■□
HTML, CSS, MXML	■■■■■
Flex, ActionScript	■■■■■
SEO	■■■■■□
Flash	■■■□□
SQL	■■■■■□
Apache / XAMP	■■■■■□
APIs (FB, Twitter)	■■■■■

Programming languages:

C, C++, C#	■■■■■
Visual Basic	■■■■■□
HTML, CSS, MXML	■■■■□□

Tools:

Photoshop, Lightroom	■■■■■
After Effects & Premiere	■■□□□
Latex	■■■■■
Excel	■■■■■

Statistical:

Matlab, R	■■■■■
SAS	■■■■■□
SPSS	■■■■■□
S-Plus	■■■■■□
Mathematica	■■■■□□
Maple	■■■■□□
FlexSim	■■□□□

MATHEMATICAL & COMPUTER VISION SKILLS

Computer Vision:

- Data fusion
- Face detection & recognition
- Hidden Markov Models
- Image segmentation
- OpenTLD
- Pattern recognition algorithms
- Kalman filters
- Motion-tracking
- Particle filters
- SIFT & SURF object recognition
- Statistical classification

Machine learning:

- Agent-based modelling
- Bayesian inference
- Bayesian networks
- Clustering algorithms
- Data mining
- Decision trees
- (Neural) Dynamic programming
- Neural networks

Machine learning (continued):

- Reinforcement learning
- Rough data models
- Sentiment analysis
- Text mining
- Web mining

Statistical & Stochastic models:

- ARIMA(X) forecasting
- Bootstrapping
- Brownian motion
- (Partial) Differential equations
- Discrete mathematics
- Discriminant analysis
- Dynamic systems
- Einstein's Relativity Theory
- Fokker-Planck equations
- Fourier transformations
- Game theory
- Graph algorithms
- Heat equations
- Information propagation models

- Integer programming
- Lagrange multipliers
- Laplace transformations
- Linear programming
- Markov chains
- Markov decision processes
- Mathematical programming
- Optimal control
- Optimisation
- Organisational Network Analysis
- Predictive analytics
- Queuing theory
- Regression models
- Score card development
- Sensitivity analysis Simulation
- Social Network Analysis
- Statistical inference
- Stochastic differential equations
- Stochastic processes
- Virus propagation models
- Visual data analytics
- Web analytics

MEDIA & PUBLICATIONS

Media coverage:

- BBC Television
- Chicago Tonight
- NBC (55 million viewers)
- TF1, M6
- Nice Matin
- Volkskrant (major Dutch newspaper)

Journal publications:

- Journal of Computer Networks
- Ubiquitous Computing and Communication Journal
- Queueing Systems Journal
- ACM/URSI/Kluwer Journal on Wireless Networks
- Journal of Mathematical Methods in Operations Research

Internet publications:

- www.zdnet.com
- www.silicon.com
- www.computing.co.uk

Conferences:

- ACM SIGMETRICS, Canada
- IEEE INFOCOM, Spain & Miami
- WETICE, Paris
- ECHISE-UBICOMP, California
- Pervasive, Dublin
- WiOpt, UK
- Performance
(most cited paper, 500+ times)

REFERENCES

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