

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name	Baptist, M.J.
Address	Wageningen IMARES, location Texel, Landsdiep 4, 1797 SZ Den Hoom - Texel
Telephone	+31 317 48 70 68
Fax	+31 317 48 73 62
E-mail	martin.baptist@wur.nl
Nationality	Dutch
Date of birth	07 April 1972

WORK EXPERIENCE

- Dates (from – to) Sep. 1996 – Oct. 2004
- Name and address of employer WL | Delft Hydraulics, Delft, the Netherlands
 - Type of business or sector Research institute
 - Occupation or position held Researcher / advisor
- Dates (from – to) Oct. 2004 – Oct. 2006
- Name and address of employer Delft University of Technology, Faculty of Civil Engineering
 - Type of business or sector Research and education
 - Occupation or position held Assistant professor
- Dates (from – to) Oct. 2006 - present
- Name and address of employer Wageningen IMARES, Location Texel
 - Type of business or sector Research institute
 - Occupation or position held Researcher
- Dates (from – to) Mar. 2008 – present (0.2 fte)
- Name and address of employer Van Hall - Larenstein
 - Type of business or sector Education
 - Occupation or position held Extraordinary Lector in Marine Ecosystems Management

EDUCATION AND TRAINING

- Dates (from – to) 1991 - 1996
- Name and type of organisation providing education and training Wageningen University
- Principal subjects/occupational skills covered M.Sc. Environmental Studies, Aquatic Ecology & Water Quality, cum laude. Main topics were aquatic ecology, integrated water management and hydraulics, with emphasis on mathematical modeling.
- Dates (from – to) 2001-2005
- Name and type of organisation Delft University of Technology

providing education and training

- Principal subjects/occupational skills covered

PERSONAL SKILLS AND COMPETENCES

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

MOTHER TONGUE

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

- Reading skills
- Writing skills
- Verbal skills

SOCIAL SKILLS AND COMPETENCES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

ORGANISATIONAL SKILLS AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

TECHNICAL SKILLS AND COMPETENCES

With computers, specific kinds of equipment, machinery, etc.

ARTISTIC SKILLS

Ph.D. Delft University of Technology, Faculty of Civil Engineering and Geosciences, Section of Hydraulic Engineering (April 2005). The thesis deals with integrating biology and geomorphology in river floodplains to predict the consequences of nature restoration on flow, sediment transport and morphodynamics.

Dutch

English

Excellent
Excellent
Excellent

GERMAN

Good
Fair
Fair

Mr. Baptist has had a staff position as assistant professor at Delft University of Technology. He finished an intensive course resulting in a 'base-qualification in education' focusing on group teaching techniques, presentation skills and coaching of individual talents. He is a gifted presenter capable of creating enthusiasm in the audience.

On behalf of WL | Delft Hydraulics he has been project secretary for the formation and co-ordination of the MARE-consortium on the study of the environmental effects of an artificial island in the North Sea. He has been appointed deputy investigator for the ecology discipline group, partly responsible for research management. At Wageningen IMARES he is project or consortium leader for a number of large projects, such as Building with Nature (3.75 M€), We@Sea (1.3M€) and NWO-ZKO (1.5M€).

Dr. ir. Martin Baptist is a specialist researcher and advisor on ecology, water quality modelling, environmental impact assessments, natural resources management and biogeomorphology. He has a broad understanding of the functioning of freshwater and marine ecosystems, governing the hydro- and morphodynamics, water quality and ecology, in combination with expertise on policy analysis, decision support and multiple spatial use. From October 2006 onwards he is working for Wageningen IMARES as a researcher. His projects deal with the interaction between infrastructural works and ecology (Building with Nature, effects of sand nourishments and dredging), the spatial distribution of birds in the Wadden Sea and North Sea (NWO-ZKO, We@Sea), the restoration of estuarine gradients, and nature management (Wadden Sea World Heritage). Since March 2008 Martin Baptist is appointed extraordinary lector Marine Ecosystems Management at Van Hall Larenstein.

Mr. Baptist likes to make drawings, but found out that making photographs gives results faster. He photographed several weddings and he won the NCK Photo Competition 2007.

AND COMPETENCES

Music, writing, design, etc.

OTHER SKILLS

AND COMPETENCES

Competences not mentioned above.

DRIVING LICENCE(S)

Yes

ADDITIONAL INFORMATION

KEY QUALIFICATIONS

Marine ecology, integrated coastal zone management, hydro- and morphodynamics, habitat analysis, remote observation techniques.

SELECTED PROF. EXPERIENCE

Abroad:

1996: Bedford Institute of Oceanography, Dartmouth, Nova Scotia, Canada. Assessing benthic impacts of fish farming with an expert system based on neural networks.

1997-1999: Various Environmental Impact Assessments on the discharge of cooling water of power stations; biological inventory in Cyprus.

1998: Review on environmental and ecological impacts for the construction of artificial islands off the coast of Israel.

1999: Environmental Impact Assessment of dredging and spoil dumping of Duncannon Bar (Ireland).

2000: Gaza Coastal and Marine Environmental Action Programme, Gaza strip. Project leader.

2000: Laguna de Bay ecological and water quality study, Philipinnes.

2003-2004: Integrated Transboundary River Basin Management of the River Sava, Croatia. Project leader.

2008: Integrated Coastal Zone Planning of the Manhood Peninsula, Great-Britain.

Home Country:

1996-1997: Bio-accumulation study of narcotic chemicals in marine fish.

1995-2000: Analysis of the effects of climate change on the ecosystem of the Wadden Sea with an expert system based on fuzzy set theory.

1996-1998: EcoMorphological Decision Support System: the impact of morphological changes on the biomass and distribution of benthos in the Western Scheldt.

1997: Ecological effects of an artificial island in the North Sea.

1997: Research project into the relation between physical parameters and the distribution of macro-benthos on a tidal flat.

1997: Development of a typology for Decision Support Systems.

1997-1998: Review study on Environmental Impact Assessments on cooling water discharges in Europe.

1997-1998: Decision Support System for multiple spatial use of land reclamation works in the Netherlands.

1998: Study on the morphological and ecological potentials of land reclamation in The Netherlands.

1998: Study on the morphodynamics and ecology of the Western Scheldt.

1998: Modelling aquatic and wetland vegetation distribution in Dutch lakes.

1997-1999: Integrative mathematical modelling with the use of neural networks of benthic distribution in the Western Scheldt.

1998-1999: Modelling morphological resilience in Dutch coastal dune systems.

1999: Classification of tidal areas in the Western Scheldt with remote sensing images.

2000-2001: EU-IRMA Cyclic Floodplain Rejuvenation; development and assessment of a management strategy for the combination of flood protection and nature development in the River Rhine.

2000-2003: Delft Cluster Bigeomorphology of the North Sea floor, project leader.

2002: Modelling the ecological development of water conservation wetlands.

2003-2004: Modelling hydraulic roughness and bed shear stress of river floodplains.

2005: External Quality Review for the final report of the RIKZ-project ZEEKENNIS.

2005: Delft Cluster project on Modelling tools for the Water Framework Directive. Team leader of Working package 4: case studies.

2006: External Quality Review for the final report of the RIKZ-project MOVE Westerschelde.

2006: De Rijke Dijk; ontwerp en benutting van harde infrastructuur in de getijzone voor ecologische en recreatieve waarden.

2006: Reporting the Universal Outstanding Values of the Wadden Sea for its World Heritage Nomination. <http://library.wur.nl/way/bestanden/clc/1841545.pdf> and <http://library.wur.nl/way/bestanden/clc/1878944.pdf>

2006: Analysing the effects of shoreface nourishments on the coastal ecosystem of The Netherlands.

2007: Study on the restoration of estuarine dynamics in southwest Netherlands. <http://library.wur.nl/way/bestanden/clc/1878936.pdf>

2007-2008: We@sea: validation of bird radar observations.

2007: The effect of turbidity on the capture success of the Sandwich Tern. <http://library.wur.nl/way/bestanden/clc/1878940.pdf>

2007: Study on environmental dredging strategies. <http://library.wur.nl/way/bestanden/clc/1878943.pdf>

2007: Pre-feasibility study on the ecological consequences of the "Zandmotor".

2007-2008: Study on definition of "natural limits" for the Wadden Sea ecosystem.

2008: reviewing the strategies for estuarine development in the Western Scheldt.

2008 – present: Case manager for Building with Nature: case High Resolution Monitoring.

2008 – present: We@sea: studying the relationship between sea birds and fish, project leader.

2008 – present: NWO-ZKO studying the relationship between waders and benthos, consortium leader.

REFERENCES

Baptist, M.J., W. Silvert, D.L. Angel & P. Krost, 1997. Assessing benthic impacts of fish farming with an expert system based on neural networks. In: Wallace, G.T. & E. F. Braasch (eds.). Proceedings of the Gulf of Maine Ecosystem Dynamics Scientific Symposium and Workshop, Regional Association for Research on the Gulf of Maine (RARGOM) Report, 97-1, p. 313. New Hampshire, USA, 16-19 september 1996.

Baptist, M.J., M.B. de Vries & Z.B. Wang, 1998. Ecomorphological Decision Support System for the Western Scheldt. In: Babovic, V. & L.C. Larsen (eds.), 1998. Hydroinformatics'98. Conference Proceedings.

Baptist, M.J., M.W.M. van der Tol & M. Vonk, 2000. A fuzzy expert system for effects of climate change on the Wadden Sea ecosystem. Conference Proceedings of the Hydroinformatics 2000 Symposium, Cedar Rapids, Iowa, USA.

Vos R.J., S.W.M. Peters, R. Pasterkamp, M. Villars, M. Baptist, J. Kokke & E. Hoogenboom, 2000. Baseline mapping of sediment distribution in the Western Scheldt estuary prior to tunnel boring. XIXth ISPRS Conference', Amsterdam 16-23 July 2000, Proceedings Supplement, p 246-253.

- Silvert, W. & M. Baptist, 2000. Can Neuronal Networks be Used in Data-Poor Situations? In: Lek, S. & J-F. Guégan (Eds.), 2000. Artificial Neuronal Networks; Application to Ecology and Evolution. Berlin, Springer-Verlag.
- Knaapen, M.A.F., H. Holzhauer, S.J.M.H. Hulscher, M.J. Baptist, M.B. de Vries & M. van Ledden, 2003. On the modelling of biological effects on morphology. Sánchez-Arcilla, A. & Bateman, A. (eds.): River, Coastal and Estuarine Morphodynamics 2003, Barcelona, 773-783.
- Baptist, M.J., W.E. Penning, H. Duel, A.J.M. Smits, G.W. Geerling, G.E.M. van der Lee & J.S.L. van Alphen, 2004. Assessment of the effects of cyclic floodplain rejuvenation on flood levels and biodiversity in the Rhine River. *River Research and Applications* 20: 285-297.
- Baptist, M.J., 2005. Biogeomorphology. In: Schwartz, M. (ed.). *Encyclopaedia of Coastal Science*, pp. 192-193. ISBN 1-4020-1903-3.
- Baptist, M.J., L.V. van den Bosch, J.T. Dijkstra & S. Kapinga. Modelling the effects of vegetation on flow and morphology in rivers, 2005. *Archiv für Hydrobiologie Supplement* 155/1-4, Large Rivers 15(1-4): 339-357.
- Baptist, M.J., 2005. Modelling floodplain biogeomorphology. Ph.D. thesis, Delft University of Technology, Faculty of Civil Engineering and Geosciences, ISBN 90-407-2582-9, 213 pp.
- Baptist, M.J., M. Haasnoot, P. Cornelissen, J. Icke, G. van der Wedden, H.J. de Vriend & G. Gugic, 2006. Flood detention, nature development and water quality along the lowland river Sava, Croatia. *Hydrobiologia* 565: 243-257.
- Baptist, M.J., J. van Dalfsen, A. Weber, S. Passchier & S. van Heteren, 2006. The distribution of macrozoobenthos in the Southern North Sea in relation to meso-scale bedforms. *Estuarine, Coastal and Shelf Science* 68(3-4): 538-546.
- Baptist, M.J., V. Babovic, J. Rodríguez Uthurburu, M. Keijzer, R. Uittenbogaard, A. Verweij & A. Mynett, 2007. On inducing equations for vegetation resistance. *Journal of Hydraulic Research* 45(4): 435-450.
- Straatsma, M. & M.J. Baptist, 2008. Floodplain roughness parameterization using airborne laser scanning and spectral remote sensing. *Remote Sensing of Environment* 112: 1062-1080.
- Rutten, M., N. van de Giesen, M. Baptist, J. Icke, & W. Uijttewaai, 2008. Seasonal forecast of cooling water problems in the river Rhine. *Hydrological Processes* 22: 1037-1045.
- Geerling, G.W., E. Kater, C. van den Brink, M.J. Baptist, A.M.J. Ragas & A.J.M. Smits (2008). Nature rehabilitation by floodplain excavation: the hydraulic effect of 16 years of sedimentation and vegetation succession along the Waal River, NL. *Geomorphology* 99: 317-328.