

MICHEL DURINX

Professional experience

Editing

- [01/2009] Finding and annotating entries for the **Postgenomic Database** at Egenis (Exeter).
- [2002–2008] **Writing, reviewing** and **proofreading** scientific papers.
- [2000–2008] **Design** and **maintenance** of websites for peers.
- [1997–2008] **Using, introducing,** and **troubleshooting** the \LaTeX scientific **word processor**, including writing a friendly introductory manual [2001].

Teaching

- [2011] **PGCE** training at St. Margaret's School (Exeter).
- [2–6/2010] **Classroom assistant (maths)** at Clyst Vale Community College, one day per week.
- [2000–2006] Exercise sessions in and remedial teaching of **basic maths, mathematical modeling,** and **statistics**, for first year biology students at Leiden University (The Netherlands).
- [1998–2000] Exercise sessions in and remedial teaching of **calculus**, for undergraduates in mathematics and physics at Hasselt University (Belgium).

Organisation

- [15/10/2008] Symposium *Recent advances in Adaptive Dynamics theory* at Leiden University (NL).
- [2003–2006] Weekly lunch talk in the Theoretical Biology group at Leiden University (NL).

Award

PhD thesis was awarded second place for the 2008 Reinhart Heinrich Doctoral Thesis Award, by the European Society for Mathematical and Theoretical Biology.

Education

- [2000–2008] **PhD.** in **theoretical biology** at the Institute of Biology, Leiden University (NL).
Title: Life amidst of singularities. Defended successfully on 15 October 2008.
Supervisor: Prof. dr. J.A.J. Metz.
Co-supervisor: dr. T.J.M. Van Dooren.
Subject: Study of invasion fitness functions near and away from singularities, with arbitrarily complex underlying population dynamical models. Study of the evolutionary competition between speciation and sexual dimorphism, and between assortative mating and dominance modification.
- [1998–2000] **Researcher** (NFWO aspirant) in **mathematics** at the Dynamical Systems group, Hasselt University (B).
- [1994–1998] **Bachelor's** and **Master's of Science** (kandidaat, resp. licentiaat) in **fundamental mathematics**, University of Antwerp (B).
- [1997–1998] Erasmus exchange student at Glasgow University.
- [1988–1994] **Secondary school:** Latin-mathematics, OLVE college, Edegem (B).

Skills

Languages	Dutch (native), English (fluent), French (intermediate), Italian (intermediate).
Computer skills	preparation of presentations in L ^A T _E X and PowerPoint, using and administrating Linux and MacOS X systems, extensive experience using and assisting in scientific word processing in L ^A T _E X, broad experience with HTML/CSS, limited experience with C/C++ and Python, broad experience with GIMP, Photoshop, and Illustrator.

Publications

- **M. Durinx** & T.J.M. Van Dooren. Assortative Mate Choice and Dominance Modification: Alternative Ways of Removing Heterozygote Disadvantage. *Evolution* 2009 **63**: 334–352.
- **M. Durinx**, J.A.J. Metz & G. Meszéna. Adaptive dynamics for physiologically structured population models. *Journal of Mathematical Biology* 2008 **56**:672–742.
- **M. Durinx** & J.A.J. Metz. Multi-type Branching Processes and Adaptive Dynamics of Structured Populations. In: P. Haccou, P. Jagers & V. Vatutin. *Branching Processes: Variation, Growth, and Extinction of Populations*. CUP 2005, pg. 266–277.
- T.J.M. Van Dooren, **M. Durinx** & I. Demon. Sexual dimorphism or Evolutionary branching? *Evolutionary Ecology Research* 2004 **6**:857–871.
- (non-scientific:) a short manual for the L^AT_EX scientific typesetting software (35pg).

Selected presentations

- Adaptive dynamics of physiologically structured populations. Invited lunch talk at Leiden University (NL), 14 October 2008.
- Adaptive dynamics modeling of mate choice strategies. Invited talk at Exeter University Biosciences School (UK), 4 April 2008.
- Analysing adaptive dynamics models. Invited talk at Royal Holloway University (UK), 4 December 2007.
- Assortative mate choice or dominance modification? MMEE2007 at Sussex University (UK), 20–21 December 2007.
- Multi-type branching processes and adaptive dynamics of structured populations. Branching in biology symposium at Chalmers University, Gothenburg (SE), 22–26 May 2005.
- Analysing adaptive dynamics models. Dutch Society for Theoretical Biology (NVTB) symposium at Schoorl (NL), 3–4 March 2005.
- Invasion fitness near evolutionary singularities. Computational and mathematical population dynamics conference (Destobio-3/PMD-7) at Trento University (IT), 21–25 June 2004.
- Evolutionary singularities of structured populations. Adaptive dynamics workshop at the Collegium Budapest (HU), 14–18 June 2004.
- General structured population models and adaptive dynamics. EU research training network ModLife meeting at IIASA, Laxenburg (AU), 15–17 May 2002.
- Calculating the canonical form. ADN workshop in Veszprem (HU), 18–22 March 02.
- Towards a bifurcation theory for AD. Invited talk at Kyushu University (JP), 9 April 2002.