

ROMAIN HOLLANDERS
PH.D. STUDENT
ENGINEER IN APPLIED MATHEMATICS

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Belgian, born February 15, 1987

Education

- 2010 - present **Ph.D. student** in **Applied Mathematics** at the **Université catholique de Louvain** (UCLouvain) with Jean-Charles Delvenne and Raphaël Jungers. Graduation expected for September 2014.
- 2005 - 2010 **UCLouvain** - *Ingénieur Civil en mathématiques appliquées* - Master in Applied Mathematics. Finished final year with *Summa Cum Laude*.
- 2009 - 2010 Master's thesis at **MIT** and **UCLouvain**. "On the Policy Iteration algorithm for PageRank Optimization", 17.5/20.

Conferences and publications

- 2010 – 2011 **Five talks** at international conferences (list in appendix).
- 2012 **Two articles**: one accepted to an international conference and one submitted to a journal.

Experience and skills

- 2012 Co-organization of the Mons Days conference hosted in Louvain-la-Neuve.
- 2008 - present UCL - **Teaching Assistant** for three university courses including "Numerical Methods" with Vincent Legat, "Stochastic Modeling" with Philippe Chevalier and "Game Theory" with Raphaël Jungers.
- 2006 - present **Freelance mathematics teacher** for students aged 12-18 for four years (over 90% success rate).
- 2009 Alterface SA. - Louvain-la-Neuve - Six week **voluntary Internship** as a C++ and Ogre programmer. Alterface is a spin-off company that offers a range of **interactive, innovative and recreational multimedia systems for museums, science centers, and amusement parks**.

Languages

- French Native language.
English Fluent.
Dutch Good knowledge (three high school years in College van Melle).

Miscellaneous

- 2011 Co-recipient of the **second place** at the SIAM "*Math Matters : apply it!*" worldwide competition in which participants are to submit short descriptions in layman's terms exemplifying the central role of mathematics in a modern application that affects people's lives.
- I have a taste for improving **communication** in science and life in general.
I enjoy playing squash, badminton and volleyball and I like hiking.

List of conferences with contributed talk

- 2012 “*SIAM Linear Algebra*”, one week conference on linear algebra, Valencia, Spain.
- 2012 “*AlgoTel*”, four days meeting on the algorithmic aspects in telecommunications, Montpellier, France.
- 2011 “*NetSci*”, two days workshop followed by three days conference on Networks, Budapest, Hungary.
- 2011 “*Benelux Meeting*”, three days meeting on Systems and Control, Lommel, Belgium.
- 2010 “*Journées Graphs et Algorithmes*”, three days meeting on graph theory, Marseilles, France.

List of publications

- 2012 “*Data-driven traffic and diffusion modeling in peer-to-peer networks: A real case study*”, submitted.
- 2012 “*The complexity of Policy Iteration is exponential for discounted Markov Decision Processes*”,

Other scientific missions

- 2012 Three days *Research Retreat* in Knokke with the Large Graphs Group.
- 2012 Two days visit of the “*Laboratoire d’Informatique de Paris 6*” (LIP6) in the context of the “Euler Project”.
- 2011 Attendance to the TERANET workshop – organized by the “Euler Project” team – and to the “*International Symposium on DIStributed Computing*” (DISC) in Rome.
- 2011 Three days research retreat with the “Euler Project” team in Fréjus, France.
- 2010 Three days *Research Retreat* in La Roche with the Large Graphs Group