FRANCOIS VAN LISHOUT

PERSONAL INFORMATION

Born in Eupen, Belgium, 10 September 1980

email f.vanlishout@gmail.com

website http://www.montefiore.ulg.ac.be/~vanlishout/

mobile phone +32 479 34 95 23

WORK EXPERIENCE

2016–Present   Project Manager, MONTEFIORE INSTITUTE

Montefiore Institute, Liège University, Belgium

Leading a team of four people on the RAGI project. Developping an artificial intelligence system able to welcome people entering into a building, differenciate between known and unknown persons, provide usefull information and guide them into the building. Working on the technical and buisness parts of the project. On my spare time, working on a project consisting in equiping the arm of a disabled person, who cannot communicate with its environement, with captors and use machine learning methods to differentiate between movements intending to try to communicate and sporadic ones. Developped skills: scrum master certification, Jira, JHipster, Tensorflow, entrepreneurship, buisness models, creativity, IBM Watson, captors, ...
Reference: Louis WEHENKEL · l.wehenkel@ulg.ac.be

2011–2016   PhD thesis, GIGA & MONTEFIORE INSTITUTE

Giga & Montefiore Institute, Liège University, Belgium

PhD in statistical genetics: devlopment of an efficient and flexible software tool for detecting genetical factors influencing susceptibilty to disease. Teaching probability and statistics to bachelor students. Developped skills: C++, R, big data, running jobs on large clusters, advanced statistics methods, efficient oral communication, conferences organization, international collaborations, ...
Reference: Kristel VAN STEEN · kristel.vansteen@ulg.ac.be

2009-2011   Software engineer, GIGA

Giga, Liège University, Belgium

Development of a software tool for integreting, diffusing and exploiting biological knowledge coming from different research centers. Developped skills: Netbeans, postgresql, C++, big data, running jobs on large clusters, ...
Reference: Xavier TORDOIR · xavier.tordoir@kensu.io

2007-2009   Software engineer, IKNOST

Iknost, Verviers, Belgium

Developping a website for online remedial courses. Developped skills: Java EE, Eclipse, Struts, Hibernate, XHTML, XML, MySQL, CSS, JavaScript, Flex, SVN, Alfresco, ...
Reference: Vincent REIP · vincent.reip@yahoo.be

2004–2007   Teaching assistant, MONTEFIORE INSTITUTE

Montefiore Institute, Liège University, Belgium

Developping artificial intelligence software outperforming humans capabilities in games such as Sokoban and Backgammon. Collaboration with Maastricht university. Teaching programming, logic and artificial intelligence. Developped skills: teaching, scheme, classical AI algorithms, scientific writting, LATEX, ...
Reference: Pascal GRIBOMONT · gribomont@ulg.ac.be

2003-2004   Software engineer, CALLATAŸ & WOUTERS

Callataÿ & Wouters, Brussels, Belgium

Developping B2N Software for well-known belgian banks. Consulting at crelan. Developped skills: Cobol, XSLT, vim, B2N, customer care, finance, ...
Reference: Jean VASTEMANS · jva@c-w.be

EDUCATION

2011-2016	### Ph.D. in engineering, LIÈGE UNIVERSITY
Doctor of engineering	PhD thesis in statistical genetics: devlopment of an efficient and flexible software tool for detecting genetical factors influencing susceptibilty to disease.
2004-2006	### M.Sc. in advanced engineering, LIÈGE UNIVERSITY
Master after master degree	Grade: highest distinction. Master thesis focused on game artificial intelligence software. Winner of the AIM 2006 award for the best thesis in computer science.
1998-2003	### M.Sc. in computer engineering, LIÈGE UNIVERSITY
Software engineer	Grade: high distinction. Master thesis in the field of bioinformatics: applying tree-based machine learning methods to diagnose different cancer types.
1992-1998	### High school diploma, ATHÉNÉE ROYAL EUPEN
High school diploma	Grade: high distinction. Winner of 5 awards: best student in mathematics, physics, sciences, discipline and school representation at the math olympiad.

LANGUAGES

French	Mother tounge
German	Very good knowledge (used daily)
English	Very good knowledge (used daily)

SOCIAL ENGAGEMENT

2014-2016	### Administrator, RÉSEAU DES DOCTORANTS
Réseau Des Doctorants	I was one of the four administrators of the *Réseau des doctorants*, an association whose purpose is to bring together PhD students from Liège University. I took care of the finance, the organizations of the events (contact with invited speakers, cathering, logistic, ...), the contact with the representatives of the different doctoral schools, ...
2011-2016	### Scientific representative, FACULTY BOARD
Applied Sciences Faculty	I was a scientific representative at the monthly faculty meeting, where many decisions impacting the applied sciences faculty are taken. My task was to defend the interests of the scientific members of the faculty.
2011-Present	### Scientific representative, MONTEFIORE R.U. BOARD
Montefiore Research Unit Board	I'm a scientific representative at the Montefiore Research Unit Board. My task is to discuss the strategic decisions with the other members and defend the interests of the scientific members of the departement.
2000-2003	### Administrator, CENTRALE DES COURS DE L'AEES
Centrale des cours de l'AEES	I was one of the main administrators of the *Centrale des cours de l'AEES*, a non-profit organization whose purpose is to cell scholar books to students. I took care of the finance, the logistic, the celling process, ...
1998-Present	### Chess Teacher, KSK ROCHADE EUPEN-KELMIS
KSK Rochade Eupen-Kelmis	I'm teaching chess to the youth players of the *KSK Rochade Eupen-Kelmis* chess club.

EVENTS

Conferences

I participated in the organization of CSCDA 2014, an international conference on complex disease analysis, which took place at the *Giga* (59 participants). I took care of the website, the contact with the invited speakers, the booking of the hotel rooms, ...

I was one of the main organizers of the CSCDA 2012 conferences, an international conference on complex disease analysis, which took place at the *Palais des Congrès de Liège* (78 participants). I took care of the website, the finance, the contact with the invited speakers, the booking of the conference and hotel rooms, the organization of the cathering and the social event, ...

Team-building activities

I was one of the four organizers of the 1st *Montefiore Research Unit Day* 2017, a team-building type of activity, which took place at the Reinhardstein castle (80 participants). I took care of the selection of the location and activities, the contact with the speakers, the registrations, the car-sharing, the moderation, ...

I was the organizer of the 8th *Systmod Research Unit Day* 2014, a team-building type of activity, which took place at the Spa-Francorchamps circuit (48 participants). I took care of the selection of the activities and the cathering, the registrations, the finance, the moderation of the conference part of the day, the communication, ...

Youth Chess Championship

I was one of the main organizers of the belgium youth chess championship 2005, which took place in Eupen (150 participants). I took care of the website, the photographies, the contact with the players, the logistic, ...

PUBLICATIONS

Journal Articles

Van Lishout, F., Gadaleta, F., Moore, J. H., Wehenkel, L., & Van Steen, K. (2015). gammaMAXT: a fast multiple-testing correction algorithm. *BioData Mining, 8(36)*.

Fouladi, R., Bessonov, K., Van Lishout, F., & Van Steen, K. (2015). Model-Based Multifactor Dimensionality Reduction for Rare Variant Association Analysis. *Human Heredity, 79, 157-167*.

Van Lishout, F., Mahachie John, J., Gusareva, E., Urrea, V., Cleynen, I., Theatre, E., Charloteaux, B., Calle, M. L., Wehenkel, L., & Van Steen, K. (2013). An efficient algorithm to perform multiple testing in epistasis screening. *BMC Bioinformatics, 14, 138*.

Mahachie John, J., Gusareva, E., Van Lishout, F., & Van Steen, K. (2013). A robustness study to investigate the performance of parametric and non-parametric tests used in Model-Based Multifactor Dimensionality Reduction Epistasis Detection. *BioData Mining, 6(9)*.

Mahachie John, J., Cattaert, T., Van Lishout, F., Gusareva, E., & Van Steen, K. (2012). Lower-Order Effects Adjustment in Quantitative Traits Model-Based Multifactor Dimensionality Reduction. *PLoS ONE*.

Mahachie John, J., Cattaert, T., De Lobel, L., Van Lishout, F., Empain, A., & Van Steen, K. (2011). Comparison of genetic association strategies in the presence of rare alleles. *BMC Proceedings*.

Cattaert, T., Calle, L. M., Dudek, S. T., Mahachie John, J., Van Lishout, F., Urrea, V., Ritchie, M. D., & Van Steen, K. (2011). Model-Based Multifactor Dimensionality Reduction for detecting epistasis in case-control data in the presence of noise. *Annals of Human Genetics, 75(1), 78-89*.

Mahachie John, J., Van Lishout, F., & Van Steen, K. (2011). Model-Based Multifactor Dimensionality Reduction to detect epistasis for quantitative traits in the presence of error-free and noisy data. *European Journal of Human Genetics, 19, 696-703*.

<table>
<tr><td>International
conference &
Workshop papers</td><td>Van Lishout, F., Gadaleta, F., Moore, J. H., Wehenkel, L., & Van Steen, K. (2014). gammaMAXT: a fast multiple-testing correction algorithm. ERCIM 2014, Pisa, Italy</td></tr>
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Van Lishout, F., Bessonov, K., Duan, Q., Gusareva, E., Mahachie John, J., Tantishira, K., & Van Steen, K. (2013). Genome-wide environmental interaction analysis using multidimensional data reduction principles to identify asthma pharmacogenetic loci in relation to corticosteroid therapy. Annual Society of Human Genetics Annual Meeting, Boston, USA.

Van Lishout, F., Vens, C., Urrea, V., Calle, M. L., Wehenkel, L., & Van Steen, K. (2012). Survival analysis: finding relevant epistatic SNP pairs using Model-Based Multifactor Dimensionality Reduction. ERCIM 2012, Oviedo, Spain.

Van Lishout, F., Cattaert, T., Mahachie John, J., Gusareva, E., Urrea, V., Cleynen, I., Theatre, E., Charloteaux, B., Kvasz, A., Calle, M. L., Wehenkel, L., & Van Steen, K. (2011). An Efficient Algorithm to Perform Multiple Testing in Epistasis Screening. Benelux Bioinformatics Conference, Luxembourg, Luxembourg.

Mahachie John, J., Gusareva, E., Van Lishout, F., & Van Steen, K. (2011). A robustness study to investigate the performance of parametric and non-parametric tests used in Model-Based Multifactor Dimensionality Reduction Epistasis Detection. 20th Annual IGES Conference, Heidelberg, Germany.

Demaret, J.-N., Van Lishout, F., & Gribomont, P. (2008). Hierarchical Planning and Learning for Automatic Solving of Sokoban Problems. BNAIC 2008, Twente, the Netherlands

Van Lishout, F., Chaslot, G., & Uiterwijk, J. W. H. M. (2007). Monte-Carlo Tree Search in Backgammon. 12th Computer Olympiad, Amsterdam, the Netherlands

Van Lishout, F., & Gribomont, P. (2006). Single-player games: introduction to a new solving method combining classical state-space modelling with a multi-agent representation. BNAIC 2006, Namur, Belgium

INTERESTS

<table>
<tr><td>Running</td><td>I run regularly since 2009. I'm specialized in marathons (best time 3 h 09 min 33 sec, Wien 2014) and half marathons (best time 1 h 28 min 12 sec, Köln 2014).</td></tr>
<tr><td>Chess</td><td>I play since 1994 for the club KSK Rochade Eupen-Kelmis. I'm in the top 250 of the Belgium rank list (2098 elo) and play mainly in the 2nd national league (reservist in the 1st league). I played the junior europeen championship (Avilez, 1999) and the FISU world championship (Istanbul, 2004).</td></tr>
<tr><td>Triathlon</td><td>Since 2011, I'm a member of the Triathlon Team Eupen club. I'm specialized in olympic distance (1500m swimming, 40km bike, 10km running).</td></tr>
<tr><td>Poker</td><td>I play poker since 2007. I'm particularly interested in the mathematics of poker, seen as a game of applied probability and statistics. I played the World Series of Poker (Las Vegas 2016).</td></tr>
<tr><td>Mindfulness</td><td>Mindfulness means maintaining a constant awareness of our feelings, thoughts, body sensations and environment. I followed a three-month training (Liège, Jan-March 2015). I gave the same training to two groups (Herbesthal, May-July 2015, Sept-Nov 2015).</td></tr>
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July 28, 2017