

# Michal Valko

Inria Lille – Nord Europe  
Équipe SequeL, bureau A05  
Parc Scientifique de la Haute Borne  
40 avenue Halley  
59650 Villeneuve d’Ascq, France

<http://researchers.lille.inria.fr/~valko/>  
michal.valko@inria.fr  
+33 3 59 57 7801

- EXPERIENCE ◇ **Inria – team SequeL**, Lille, France  
Experienced Junior Scientist - CR1 (2014 – ...)  
Junior Scientist - CR2 (2012 – 2014)  
Postdoctoral Researcher (2011 – 2012), Advisor: *Rémi Munos*
- ◇ **ENS Cachan – Master 2 MVA**, France, External Lecturer - CEV (2014 – ...)
- ◇ **Intel** – Intel Labs (Summer 2010) and Intel Research (Spring 2009)
- EDUCATION ◇ **École normale supérieure de Cachan**, HdR in Mathematics, June 2016.  
Thesis: *Bandits on Graphs and Structures*, Advisor: *Nicolas Vayatis*
- ◇ **University of Pittsburgh** (GPA 4.0) PhD in Machine Learning, August 2011.  
Thesis: *Adaptive Graph-Based Algorithms*, Advisor: *Milos Hauskrecht*
- SELECTED AWARDS Inria award for scientific excellence: Prime d’excellence scientifique (2014 - 2017)  
Distinguished Alumni of Comenius University, Slovakia (2015)  
Compunetix Best Research Award at Computer Science Department (2008 and 2011)  
University of Pittsburgh Honors Convocation 2009 Recognition  
Andrew Mellon Predoctoral Fellowship (Fall 2008, Summer 2009)
- RESEARCH INTERESTS machine learning, bandit theory, minimal feedback, online learning, sequential learning, graph-based methods, inverse reinforcement learning, semi-supervised learning
- SELECTED PUBLICATIONS ◇ Guillaume Gautier, Rémi Bardenet, **Michal Valko**: *Zonotope hit-and-run for efficient sampling from projection DPPs* (ICML 2017)
- ◇ Jean-Bastien Grill, **Michal Valko**, Rémi Munos: *Blazing the trails before beating the path: Sample-efficient Monte-Carlo planning* (NIPS 2016)
- ◇ Daniele Calandriello, Alessandro Lazaric, **M. Valko**: *Distributed sequential sampling for kernel matrix approximation*, (AISTATS 2017)
- ◇ Tomáš Kocák, Gergely Neu, **M. Valko**, Rémi Munos: *Efficient Learning by Implicit Exploration in Bandit Problems with Side Observations* (NIPS 2014)
- ◇ A. Carpentier, **M. Valko**: *Extreme Bandits* (NIPS 2014)
- ◇ **M. Valko**, Rémi Munos, Branislav Kveton, Tomáš Kocák: *Spectral Bandits for Smooth Graph Functions* (ICML 2014)
- STUDENTS ◇ *Daniele Calandriello* (2017), *Guillaume Gautier* (2020), *Jean-Bastien Grill* (2017), *Tomáš Kocák* (2016), *Pierre Perrault* (2020), and *Julien Seznec* (2020)
- SERVICE ACTIVITIES ◇ Elected member of Inria Evaluation Committee (CE Inria 2014 – 2015, 2015 – 2019)
- ◇ Organizing Committee: JFPDA (2013), Research project reviewer: FNRS (2014 – now)
- ◇ Senior Program Committee: IJCAI (2017), Program Committee: AISTATS (2016–2017), AAAI (2012, 2015), IJCAI (2015), RLDM (2015), EWRL (2012, 2015–2016), JFPDA (2014)
- ◇ Reviewer: TPAMI (2017), JMLR (2016), Automatica (2016–2017), NIPS (2012–2017), ICML (2012–2016), COLT (2014, 2017), UAI (2011–2012), IJCAI (2009), KDD (2011), AAAI (2009, 2014), ECML (2012), MEDINFO (2010)
- ◇ INTEL/Inria - Algorithmic Determination of IoT Edge Analytic - 2013 (project leader)
- ◇ European FP7 grant (CompLACS), ANR grants (BoB, ExtraLearn), NIH grants
- SKILLS & HOBBIES ◇ Choir Singer - Tenor IIa - Coeli et Terra, Volunteering: Association la Clé & PASS Senior
- ◇ Sports: hiking, squash, racquetball, running, volleyball, swimming