# Michal Valko

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- EXPERIENCE  $\diamond$  DeepMind, Paris, France, Senior Staff Research Scientist (2019 ...)
  - ♦ ENS Paris-Saclay Master 2 MVA, France, External Lecturer CEV (2014 ...)
  - ♦ Inria team SequeL, Lille, France, Research Scientist (2011 ...)
  - ♦ Intel Intel Labs (Summer 2010) and Intel Research (Spring 2009)

- EDUCATION  $\diamond$  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, 2018-2021)

Distinguished Alumni of Comenius University, Slovakia (2015)

Computer Science Department (2008 and 2011) 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 PUBLICA-TIONS

- ◇ R. Munos\*, Michal Valko\*, D. Calandriello\*, M. Azar\*, M. Rowland\*, D. Guo\*, Y. Tang\*, M. Geist\*, ..., B. Piot\*: Nash learning from human feedback, (preprint)
- ♦ C. Fiegel, P. Ménard, T. Kozuno, R. emi Munos, V. Perchet, Michal Valko: Adapting to game trees in zero-sum imperfect information games, (ICML 2023) [best paper award]
- ♦ J.B. Grill, F. Strub, F. Altché, C. Tallec, P.H.. Richemond, E. Buchatskaya, C. Doersch, B.A. Pires, D. Guo, M.G. Azar, B. Piot, K. Kavukcuoglu, R. Munos, M. Valko: Bootstrap Your Own Latent: A new approach to self-supervised learning, (NeurIPS 2020)
- ♦ Daniele Calandriello, Alessandro Lazaric, M. Valko: Distributed adaptive 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, (NeurIPS 2014)
- M.Valko, Rémi Munos, Branislav Kveton, Tomáš Kocák: Spectral bandits for smooth graph functions (ICML 2014)

# STUDENTS AND POSTDOCS

Edouard Oyallon (postdoc, 2018) Pierre Ménard (postdoc, 2019) Daniele Calandriello (2017), Omar Darwiche Domingues (2022), Côme Fiegel (2025), Guillaume Gautier (2020), Jean-Bastien Grill (2017), Tomáš Kocák (2016), Pierre Perrault (2020), Julien Seznec (2020), Jean Tarbouriech (2022), and Xuedong Shang (2021), and Daniil Tiapkin (2020)

### SERVICE ACTIVITIES

- ♦ Elected member of Inria Evaluation Committee (CE Inria 2014 2015, 2015 2019)
- ♦ Organizing Committee: EEML (2023), JFPDA (2013), Grant reviewer: FNRS (2014 2020)
- ♦ AE: TMLR (2022-2024) AC and SPC: NeurIPS (2018–2020), ICLR (2021), IJCAI (2017), Program Committee: COLT (2019), ICML (2018), AISTATS (2016–2017, 2019), AAAI (2012, 2015), IJCAI (2015), RLDM (2015), EWRL (2012, 2015–2016), JFPDA (2014)
- Reviewer: TPAMI (2017), JMLR (2016), Automatica (2016–2017), NeurIPS (2012–2017),  $\begin{array}{l} \text{ICLR (2019), ICML (2012-2016, 2019), COLT (2014, 2017-2018), ALT (2019), UAI (2011-2018), ALT (2011-201$ 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), Chist-ERA (DELTA), ANR grants (BoB, ExtraLearn, BOLD), NIH grants

### Skills & Hobbies

- ♦ Choir Singer Tenor IIa Cœli et Terra, Volunteering: Association la Clé & PASS Senior
- ♦ Sports: hiking, squash, racquetball, running, volleyball, swimming