

Victor Kristof

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Profile

- Four-year research experience in **machine learning** and **data mining** to model human behaviour
- Strong skills in **probabilistic modeling**, **data visualization**, and **software engineering**
- I develop **interpretable models** of peer-production systems, sports, voting, and law-making processes

Education

- 2015–2020 **Ph.D in Computer Science**, *Ecole Polytechnique Fédérale de Lausanne (EPFL)*.
(expected) ○ Advised by Patrick Thiran and Matthias Grossglauser in the *Information and Network Dynamics Lab (INDY)*
○ Research topics: Discrete Choice Models, Latent Factor Models, Gaussian Processes, Graph Mining, Text Mining
○ Teaching assistant: Machine Learning, Probability and Statistics, Stochastic Processes, Large-Scale Data Mining
- 2009–2015 **B.Sc. and M.Sc. in Communication Systems**, *EPFL*.
○ **GPA: 5.47/6** (Ranking: 3/53)
○ Master Thesis: *Mining and Modeling Real-Time Communications to Enable Smarter Business Interactions*
- 2011–2012 **Exchange Year**, *Tecnológico de Monterrey (ITESM)*, Mexico.

Projects

- 2019-2020 **Climpact**, www.climpact.ch.
○ Designed a Bayesian model to estimate people's perception of their carbon footprint from pairwise comparisons
- 2016–2020 **Kickoff.ai**, www.kickoff.ai.
○ Designed a Bayesian model to predict the outcomes of soccer matches outperforming the betting odds
○ Developed a web platform to provide predictions for the top-5 European leagues (featured in the media)
- 2014–2020 **Predikon**, www.predikon.ch.
○ Designed a statistical model able to predict voting results with less than 1% error
○ Developed a web platform for visualizing voting patterns and predicting voting results (featured in the media)
- 2014 **Sezam**, www.sezam.ch.
○ Developed an iOS application to help users manage entrance door codes (Objective-C)
○ Application downloaded by Mom, Dad, and 3000+ other people

Professional Experience

- 2015 **Data Scientist Intern**, *Interact.io*, Berlin.
(6 months) ○ Designed a classifier (96% accuracy) to discriminate human-created emails from automatically generated ones
○ Integrated into a web application and deployed to production (Python, HTML/CSS, JavaScript)
- 2013–2014 **Mac OS X Developer**, *Pryv*, Lausanne.
(20 months) ○ Developed a macOS application to enable users to upload their data to the company service (Objective-C)
○ Application downloaded 600 times generating 200 new users (20% of total users at the time)
- 2012 **Web Developer**, *AVNTK*, Guadalajara.
(6 months) ○ Increased traffic by 150% by adapting their translation tool (from English to Basic English) into a web application
- 2008–2009 **Specialist**, *Apple*, Geneva.
(6 months) ○ Salesman on the floor for all Apple hardware, software, and services

Skills

Machine Learning Stochastic Optimization, Representation Learning, Active Learning, Bayesian Statistics, Databases
Programming Python, Torch, TensorFlow, Objective-C, Java, Scala, Spark, JavaScript, HTML/CSS, Bash, LaTeX, SQL

Other Commitments & Interests

- Association **President**, *Swiss Youth for Climate*.
○ Active board member for four years in a 250-member NGO advocating and raising awareness on climate change
○ Raised \$100,000. Organized and presented at conferences for 100+ persons. Managed groups of 5 to 15 people.
○ Participated in the UN conference on climate change (COP22 and COP24) as a civil society observer
○ Increased members by 85% and supporters by 140% during two years of presidency
- Awards ○ Google and Microsoft Travel Grant for the *Climate Change Workshop* at NeurIPS 2019
○ EPFL Tech Transfer Office Grant (\$15,000) to develop Kickoff.ai
- Services Reviewer for AAAI 2020. Member of the faculty teaching committee. Webmaster for my lab website.
- Hobbies I played 14 years in a soccer club. I ran a 32-kilometer trail and two half-marathons. I play jazz piano.
- Languages **French** (mother tongue), **English** (fluent), **Spanish** (fluent), and **German** (good knowledge)