

# Victor Kristof

Ph.D. Student in Machine Learning

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## Profile

- Research interests in **computational social science**.
- Focusing on the statistical and algorithmic aspects of **information dynamics** in social processes.
- **Strong skills** in statistical modeling, machine learning, and data mining.

## Education

- 2015–? **Ph.D in Machine Learning**, Swiss Federal Institute of Technology (EPFL).  
○ Research topics include discrete-choice models, latent factor models, gaussian processes, and text mining.  
○ Supervised by Prof. Patrick Thiran and Prof. Matthias Grossglauser (*Information and Network Dynamics Lab*).
- 2009–2015 **B.Sc. and M.Sc. in Communication Systems**, Swiss Federal Institute of Technology (EPFL).  
○ **GPA: 5.47/6** (Ranking: 3/53).  
○ Master Thesis: *Mining and Modelling Real-Time Communication Data to Enable Smarter Business Interactions*.
- 2011–2012 **Exchange Year**, Tecnológico de Monterrey (ITESM), Monterrey and Guadalajara, Mexico.

## Projects

- 2016 **Kickoff.ai**, Bayesian model of soccer players' skill to predict Euro 2016 match outcomes, www.kickoff.ai.  
○ **Outperformed** the betting odds over the Euro 2016 (65% accuracy versus 61.67%).  
○ Featured in **national and international** press, radio, and television.  
○ **Publication:** *The Player Kernel: Learning Team Strengths Based on Implicit Player Contributions*, ECML'16.
- 2014 **Predikon**, Platform for the visualization of voting patterns and prediction of vote results, www.predikon.ch.  
○ Designed a statistical model able to predict vote results with 92% of accuracy.  
○ Featured in **national** press and radio.
- 2014 **Sezam**, iPhone app to help manage one's entrance door codes, www.sezam.ch.  
○ Downloaded 3000+ times. (Objective-C).

## Professional Experiences

- 2015 **Data Scientist Intern**, *Interact.io*, Microapps for CRM and communication, Berlin, Germany.  
(6 months) ○ **Designed classifier** (96% accuracy) to discriminate human-created emails from automatically generated ones.  
○ Integrated into a Web app and **deployed** to production. (Python, HTML/CSS, JavaScript)
- 2013–2014 **Mac OS X Developer**, *Pryv*, Personal data visualization, part-time student job, Lausanne, Switzerland.  
(20 months) ○ Developed a **data collector** application integrated into Mac OS X. (Objective-C)  
○ Application downloaded 600 times generating 200 new users (20% of total users).
- 2013–2014 **Co-Founder**, *Seeder*, Crowd-financing, part-time while studying, Lausanne, Switzerland.  
(12 months) ○ Responsible for the whole technical development of the **Web platform** in Django. (Python, HTML/CSS, JavaScript)
- 2012 **Web Developer**, *AVNTK*, Aerospace and artificial intelligence, Guadalajara, Mexico.  
(6 months) ○ Increased traffic by 150% under 4 months by adapting the company's **translation tool** (Simplish) into a Web app.
- 2008–2009 **Specialist**, *Apple*, Retail, Geneva, Switzerland.  
(6 months) ○ Salesman on the floor for all Apple's hardware, software, and services.

## Skills

Data Science Machine learning, natural language processing, optimization, stochastic processes, graph analytics, databases.  
Programming Python, Matlab, Objective-C, Java, Spark, Scala, JavaScript, HTML/CSS, Bash, LaTeX, SQL.

## Extracurricular Activities

- Association President of *Swiss Youth for Climate*, a 150-member NGO for the advocacy and awareness-raising of climate policies.  
○ Raised \$12,000, organized and presented conferences for 100+ persons, managed groups of 5 to 15 people.  
○ Participated to the UN conference on climate change (COP22) as a civil society observer.
- Sports Played 14 years in a soccer club. Ran a 32-kilometer trail (mountain race) and 2 half-marathons.
- Piano Pianist with 15 years of practice (Jazz). Played for 4 years in a band (cover songs).

## Languages

French **Mother tongue**.

English **Fluent** (written and spoken).

Spanish **Fluent** (written and spoken).

German **Good knowledge** (written and spoken).