William TROULEAU

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French citizen
Swiss B Permit
Born 28.03.1991

KEY COMPETENCES: Machine Learning • Probabilistic Modeling • Data Mining

EDUCATION

2015 – ongoing
(Estimated March 2021)

Ph.D. in Computer Science
École Polytechnique Fédérale de Lausanne (EPFL)
- Information & Network Dynamics Lab (INDY), under the supervision of Matthias Grossglauser and Patrick Thiran
- Focusing on the statistical and algorithmic aspects of **modeling**, **control** and **inference** of **networks** of **times series**; with applications to epidemiology, information diffusion and recommendation systems

2009 – 2015

B.Sc. and M.Sc. in Communication Systems
École Polytechnique Fédérale de Lausanne (EPFL)
- Master thesis on user behavior modeling in video-on-demand services, supervised by Azin Ashkan and Matthias Grossglauser (published at KDD 2016)

PROFESSIONAL EXPERIENCE

2019
(3 months)

Institute for Disease Modeling (Seattle, USA) – Research Intern
- Participated in the *2019 KIT Tuberculosis (TB) Hackathon* to quantify the TB burden in Pakistan
- Took care of data collection, data cleaning, model design and performance evaluation for our team
- Won the competition (out of 9 teams)

2014 – 2015
(10 months)

Technicolor (Los Altos, CA, USA) – Research Intern
- Designed a novel generative mixture model that presents a first-of-its-kind characterization of viewer behavior on video-on-demand services.

2013
(3 months)

Technicolor (Paris, France) – Research Intern
- Designed a hierarchical topic model with Monte Carlo Markov Chain inference for legal document classification and exploratory analysis of patent portfolios

SKILLS

Data Science   Machine Learning, Optimization, Probabilistic Modeling, Applied Data Analysis, Information Theory, Statistical Signal Processing

Programming   Python, Spark, R, Matlab, Bash, Java, SQL/NoSQL, HTML/CSS, LaTeX

LANGUAGES AND MISCELLANEA

Languages
- **French:**   Native language
- **English:**   Fluent, written and spoken

Services
- Reviewer for ICML and NeurIPS
- Study advisor for new EPFL Master students

HONORS AND AWARDS

2020	In Top 33% of Reviewers, ICML'20
2019	Hackathon Winner, *2019 Hack TB, KIT*
2019	Teaching Assistant Award, EPFL
2016	Student Travel Award, ACM SIGKDD
2015	EDIC Fellowship, EPFL

SELECTED PUBLICATIONS

2019   **A Spatiotemporal Epidemic Model to Quantify the Effects of Contact Tracing, Testing, and Containment**
L. Lorch, W. Trouleau, S. Tsirtsis, A. Szanto, B. Schölkopf, M. Gomez-Rodriguez. (Under submission at PNAS)

2019   **Learning Hawkes Processes Under Synchronization Noise**
W. Trouleau, J. Etesami, M. Grossglauser, N. Kiyavash, P. Thiran. **ICML 2019.**

2019   **Learning Hawkes Processes from a Handful of Events**
F. Salehi*, W. Trouleau*, M. Grossglauser, P. Thiran. **NeurIPS 2019.**

2018   Stochastic Optimal Control of Epidemic Processes in Networks
L. Lorch, A. De, S. Bhatt, W. Trouleau, U. Upadhyay, M. Gomez-Rodriguez. Machine Learning for Health Workshop at NeurIPS, 2018. **ML4H 2018.**

2017   **Prev. chemotherapy to control soil-transmitted helminthiasis averted more than 500'000 DALYs in 2015**
A. Montresor, W. Trouleau, D. Mupfasoni, M. Bangert, S.A. Joseph, A. Mikhailov, C. Fitzpatrick.
Transactions of The Royal Society of Tropical Medicine and Hygiene, 2017.

2016   **Just one more: Modeling binge watching behavior**
W Trouleau, A Ashkan, W Ding, B Eriksson. **KDD 2016.**