

# KEVIN SCAMAN

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## PROFESSIONAL EXPERIENCE

- 2018 – present      *Huawei Noah's Ark lab*, Paris, France  
Research scientist in Machine Learning.
- 2016 – 2017      *Microsoft Research - Inria Joint Center*, Palaiseau, France  
Postdoctoral researcher in the fields of machine learning and network analysis. Work supervised by Laurent Massoulié and in collaboration with Francis Bach (INRIA) and Sébastien Bubeck (Microsoft Research).
- 2013 – 2016      *Ecole Centrale Paris / ENS Paris-Saclay*, Paris, France  
Teaching assistant in probability theory (“Approximation methods in probability theory”, ENS Cachan), statistics (Ecole Centrale Paris) and machine learning (“Introduction to machine learning”, Master 2 MVA).
- Mar. – June 2013      *Microsoft Engineering Center*, Paris, France  
Web developer for the Xbox Music (now Groove) website.
- July – Dec. 2012      *Microsoft Engineering Center*, Paris, France  
Intern working on intelligent customer support system for Xbox.
- Apr. – Aug. 2011      *MIT, Center for Biological and Computational Learning*, Boston, USA  
Intern working on classification methods for large scale object recognition.

## EDUCATION

- 2013 – 2016      *ENS Paris-Saclay (Paris-Saclay university)*, Cachan, France  
PhD in machine learning applied to social networks and diffusion processes, entitled “Analysis and control of diffusion processes in networks” and supervised by Nicolas Vayatis at the “Centre de Mathématiques et de Leurs Applications” (CMLA).
- 2011 – 2012      *Télécom ParisTech / École Polytechnique*, Paris, France  
Double degree program in Engineering and Applied Mathematics (Master's program “Mathematics, Vision and Learning” (MVA)). Machine learning classes applied to various fields including vision, biology and text classification. Master's degree awarded with High Honors.
- 2008 – 2011      *École Polytechnique*, Palaiseau, France  
Engineering degree with a major in Applied Mathematics in one of France's most prominent universities for science.

## SCIENTIFIC PUBLICATIONS

- K. Scaman, F. Bach , S. Bubeck, Y. Lee and L. Massoulié Optimal algorithms for non-smooth distributed optimization in networks. In **NeurIPS (best paper award)**, 2018.
- M. Draief, K. Kutzkov, K. Scaman and M. Vojnovic. KONG: Kernels for ordered-neighborhood graphs. In **NeurIPS**, 2018.
- K. Scaman, A. Virmaux. Lipschitz regularity of deep neural networks: analysis and efficient estimation. In **NeurIPS**, 2018.
- R. Lemonnier, K. Scaman, and N. Vayatis. Spectral bounds in random graphs applied to spreading phenomena and percolation. **Advances in Applied Probability**, 2018.
- K. Scaman, F. Bach, S. Bubeck, Y. Lee, and L. Massoulié. Optimal algorithms for smooth and strongly convex distributed optimization in networks. In **ICML**, 2017.
- R. Lemonnier, K. Scaman, and A. Kalogeratos. Multivariate Hawkes Processes for Large-scale Inference. In **AAAI**, 2017.
- K. Scaman, A. Kalogeratos, and N. Vayatis. Suppressing Epidemics in Networks using Priority Planning. In **IEEE Transactions on Network Science and Engineering**, 2016.
- K. Scaman, R. Lemonnier, and N. Vayatis. Anytime influence bounds and the explosive behavior of continuous-time diffusion networks. In **NIPS**, 2015.
- K. Scaman, A. Kalogeratos, and N. Vayatis. A greedy approach for dynamic control of diffusion processes in networks. In **ICTAI**, 2015.
- R. Lemonnier, K. Scaman, and N. Vayatis. Tight bounds for influence in diffusion networks and application to bond percolation and epidemiology. In **NIPS**, 2014
- A. Kalogeratos, K. Scaman, and N. Vayatis. Learning to Suppress SIS Epidemics in Networks. In **Networks in the Social and Information Sciences (NIPS workshop)**, 2015.
- K. Scaman, A. Kalogeratos, and N. Vayatis. Dynamic treatment allocation for epidemic control in arbitrary networks. In **Diffusion Networks and Cascade Analytics (WSDM workshop)**, 2014.

## SCIENTIFIC AWARDS

- **NeurIPS 2018 best paper** award (4 best papers / 4865 submissions)
- **Huawei future star** (awarded by other team members to promote local talents)
- **Huawei quality star** (awarded to promote research transferred into products)

## LANGUAGES AND COMPUTER SKILLS

### Languages

French	Mother tongue.
English	Fluent, both oral and written.
Japanese	Good notions. Level N4 of the Japanese Language Proficiency Test.

### Computer Skills

Languages	Python, Matlab, C#, Java, C++, SQL, Php.
Software	Desktop applications (spreadsheet, text editing) including Latex technical writing.