

Adil Salim

Ph.D Student

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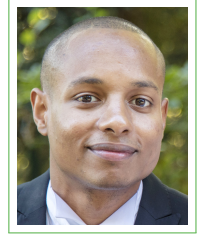
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Education

- 2015–2018 **Ph.D**, *Telecom ParisTech*, Paris, Stochastic optimization for machine learning.
Supervisors: Pascal Bianchi, Walid Hachem and Jérémie Jakubowicz
- 2014–2015 **M.Sc**, *Paris XI University*, Orsay, Probability Theory and Stochastic Modeling.
Magna cum laude
- 2012–2015 **M.Sc**, *ENSAE ParisTech*, Malakoff, Data Science and Statistical Engineering.
- 2009–2012 **Preparatory Classes for the "Grandes Ecoles"**, *Lycée Lakanal*, Sceaux,
Mathematics/Physics.
Three-year undergraduate intensive course
- 2009 **Baccalauréat Scientifique**, *Lycée Mistral*, Fresnes, Spe. Math.
Highest honours + Merit scholarship

Teaching

- 2015-2017 **Tutorial assistant**, *ENSAE ParisTech*, Malakoff, 128h.
Algebra, Measure Theory, Introduction to Stochastic Processes, Applied statistics project: French presidential elections, Twitter graph and Markov chains

Experience

- March 2018 **Visiting scholar**, *EPFL*, Lausanne, Laboratory for Information and Inference Systems (LIONS).
Host: Volkan Cevher
- 2012-2017 **Member of the Teaching Pole**, *Nonprofit organizations*, Paris, Coaching ambitious students from rough urban area to prepare competitive exams for the most prestigious schools in France.
Organizations : Renovo, Connex'cités, Gics, Prémices
- Fall 2015 **Data scientist**, *ThePriceHub.com*, Paris, Rough costing of industrial custom parts.
- Summer 2015 **Data scientist**, *Kwanko*, Bourg-la-Reine, Real Time Bidding algorithm on Google Ad Exchange.
- Summer 2015 **Master thesis**, *CREST-ENSAE*, Malakoff, Free stochastic calculus and Large random matrices.
Supervisor: Philippe Biane
- Summer 2014 **Internship**, *Insight-UCD*, Dublin, Importance sampling, MCMC methods.
Supervisor: Florian Maire
- Summer 2013 **Auditor**, *Deloitte*, Neuilly-sur-Seine, Audit of banks and insurance companies.

Publications

- [1] A. Salim, P. Bianchi, and W. Hachem. Snake: a Stochastic Proximal Gradient Algorithm for Regularized Problems over Large Graphs. *Accepted for Publication in Transaction on Automatic Control*, March 2018.
- [2] P. Bianchi, W. Hachem and A. Salim. A constant step Forward-Backward algorithm involving random maximal monotone operators. *Accepted for Publication in Journal of Convex Analysis*, March 2018.
- [3] P. Bianchi, W. Hachem, and A. Salim. Constant Step Stochastic Approximations Involving Differential Inclusions: Stability, Long-Run Convergence and Applications. *ArXiv e-prints, 1612.03831*, December 2016.
- [4] A. Salim, P. Bianchi, and W. Hachem. "A Constant Step Stochastic Douglas-Rachford Algorithm with Application to Non Separable Regularization". *IEEE ICASSP 2018*.
- [5] A. Salim, P. Bianchi, and W. Hachem. A constant step stochastic Douglas Rachford algorithm. *Technical Report*, October 2017.
- [6] A. Salim, P. Bianchi, and W. Hachem. "A Stochastic Proximal Point Algorithm for Total Variation Regularization over Large Scale Graphs". *IEEE CDC 2016*.
- [7] A. Salim, P. Bianchi, and W. Hachem. "Snake: a Stochastic Proximal Gradient Algorithm for Regularized Problems over Large Graphs". *Nips 2017 Workshop Black in AI*.
- [8] R. Mourya, P. Bianchi, A. Salim and C. Richard. "An adaptive Distributed Asynchronous Algorithm with Application to Target Localization". *IEEE CAMSAP 2017*.
- [9] P. Bianchi, W. Hachem and A. Salim. "Convergence d'un algorithme du gradient proximal stochastique à pas constant et généralisation aux opérateurs monotones aléatoires". *GRETSI 2017*.
- [10] A. Salim, P. Bianchi, and W. Hachem. "Snake: a Stochastic Proximal Gradient Algorithm for Regularized Problems over Large Graphs". *CAP 2017*.