

CHEIK TRAORÉ

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EDUCATION

PhD in Mathematics and Applications Marie Skłodowska-Curie Actions Doctorate Fellow Università degli Studi di Genova, Italy Supervisors: Silvia Villa, Saverio Salzo	<i>November 2020 - ??</i>
MSc in Mathematics, Vision, Learning École Normale Supérieure Paris-Saclay, France Thesis: <i>Convergence of the iterates generated by AdaGrad</i> Supervisor: Édouard Pauwels	<i>October 2019 - September 2020</i>
MSc in Mathematical Sciences African Institute for Mathematical Sciences, Senegal	<i>August 2016 - February 2018</i>
Maitrise in Applied Mathematics Université Nazi Boni, Burkina Faso	<i>October 2014 - September 2015</i>
BSc in Fundamental Mathematics Université Nazi Boni, Burkina Faso	<i>October 2013 - September 2014</i>

AWARDS AND HONORS

Marie Skłodowska-Curie Actions Doctorate Fellowship	<i>2020</i>
Mastercard Foundation Scholarship	<i>2016</i>
Burkina Faso National Scholarship	<i>2008</i>

RESEARCH MOBILITIES

Research secondment Worked separately with François Glineur (UCLouvain) and Medhi Madani (N-side) Belgium	<i>April 2023 - September 2023</i>
Research secondment (online) Worked with Ion Necoara University Politehnica Bucharest, Romania	<i>November 2022 - February 2023</i>
Research intern (mostly online, Covid19) Worked with Édouard Pauwels Université Toulouse III - Paul Sabatier, France	<i>April 2020 - October 2020</i>

PUBLICATIONS

PREPRINTS *(under review)*

- [1] TRAORÉ, C., APIDOPOULOS, V., SALZO, S., AND VILLA, S. (2023). Variance reduction techniques for stochastic proximal point algorithms. *arXiv preprint arXiv:2308.09310*

ARTICLES IN PEER-REVIEWED JOURNALS *(accepted or published)*

- [1] TRAORÉ, C., SALZO, S., AND VILLA, S. (2023). Convergence of an Asynchronous Block-Coordinate Forward-Backward Algorithm for Convex Composite Optimization. *Computational Optimization and Applications*, 86(1), 303-344
- [2] TRAORÉ, C., AND PAUWELS, E. (2021). Sequential convergence of AdaGrad algorithm for smooth convex optimization. *Operations Research Letters*, 49(4), 452-458

INVITED TALKS

Journées annuelles 2023 du GDR MOA *October 2023*

Title: *Variance reduction techniques for stochastic proximal point algorithms*
Perpignan, France

20th EUROpt Workshop on Continuous Optimization *August 2023*

Session: Stochastic methods / Stream: First-order optimization methods
Title: *Asynchronous block coordinate Forward-Backward*
Budapest, Hungary

SIAM Conference on Optimization (OP23) *June 2023*

Mini Symposium on Randomized Methods for Linear Systems: Row-Action
and Coordinate Descent
Title: *Asynchronous block coordinate Forward-Backward*
Seattle, United States

Second Conference of Young Applied Mathematicians *September 2022*

Session: Machine Learning and Statistics
Title: *Asynchronous block coordinate Forward-Backward*
Arenzano, Italy

International Conference on Optimization and Decision Science *August 2022*

Session: Optimization for machine learning
Title: *Asynchronous block coordinate Forward-Backward*
Florence, Italy

SIAM Annual Meeting (AN22) (online) *July 2022*

Mini Symposium on Algorithmic Advancements for Computing on
Distributed Systems
Title: *Asynchronous block coordinate Forward-Backward*
Pittsburgh, United States

ACADEMIC AND RESEARCH ACTIVITIES

REVIEWS *(since 2021)*

Journal of Machine Learning Research

SIAM Journal on Imaging Sciences

MISCELLANEOUS

Web developer

Wutiko SAS, Senegal

February 2018 - September 2019

Graduate intern

Wutiko SAS, Senegal

May 2017 - October 2017

Temporary mathematics teacher

Several High Schools in Burkina Faso

September 2010 - June 2013