

# Sabrine Chebbi

*Residence/domicile:* 41 Rue Lamartine, Lille 59000

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*Place of birth:* Tunis, Tunisia \* *Date of birth:* 24-07-1991

## Education and Academic Positions

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### CNRS Researcher at CRIStA

*Inria, Lille*

*2024-current*

*Project title: Robust non parametric bandit algorithm*

*Collaborators: Emilie Kaufmann*

### Postdoc

*University of Tübingen collaboration with AIMS, South Africa*

*2022-2024*

*Project title: Multi-armed Bandit, Theory and Application in Communication Networks*

*Collaborators: Setarah Maghsudi, Bubacarr bah*

### Postdoc

*Institute of Mathematics of the Czech Academy of Sciences*

*September 2022- November 2022*

*Project title: Fluid-structure interaction*

*Collaborators: Sárka Nečasová, Václav Mácha*

### PhD's degree in Mathematical

*Faculty of Sciences of Tunis.*

*2016-2020*

*Thesis title: Asymptotic behavior and optimality of the energy of certain Timoshenko systems.*

*Obtained with highest honors*

*PhD supervisors : Ahmed Bchatnia and Makram Hamouda.*

*Best thesis Awards for Tunisian women in pure mathematics*

### Master's degree in Mathematical Modelling and Scientific Computing (MSC)

*National Engineers School of Tunis.*

*2014-2016*

*Thesis title: Lower energy estimates for Timoshenko system and Petrowski equation.*

### Bachelor's degree in Pure Mathematics

*The Faculty of Sciences of Tunis*

*2010-2014*

*Final grade: 60/60, Top 5*

## Publications

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- Bubacarr Bah, Sabrine Chebbi, Makram Hamouda and Joseph Muthui Wacira, *Physics-informed neural networks for Timoshenko system with thermoelasticity* preprint <https://arxiv.org/abs/2409.15872>
- Sabrine Chebbi, Václav Mácha, Sárka Nečasová "Analysis of a system modelling the interaction between the motion of a spring and a viscous gas", *Annals of Pure and Applied Mathematics*, Submitted on 20 Apr 2023.
- Bchatnia, A., Chebbi, S. Hamouda, M. Nonlinear damping effects for the 2D Mindlin-Timoshenko system. *Arab. J. Math.* 13, 485–512 (2024).
- Sabrine Chebbi, Makram Hamouda "Discrete energy behavior of a damped Timoshenko system" March 2020, *Computational and Applied Mathematics* (39).

- Ahmed Bchatnia, Sabrine Chebbi, Makram Hamouda, Abdelaziz Soufyane ” *Lower Bound and optimality for a nonlinearly damped Timoshenko system with thermoelasticity*” March 2019, Asymptotic Analysis 114(1-2):73-91.

### *Teaching Experiences*

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- **2022-2023:** Engage in the AI for Science new Master’s program <https://ai.aims.ac.za/> selection process at AIMS by assisting in reviewing applications and contributing to the creation of a shortlist.
- **2020-2021:** Teaching assistant at University of Tunis El Manar, Faculty of Sciences of Tunis, Integration.
- **2020-2021 :** Teaching assistant at Free University of Tunis, Descriptive statistics.
- **2019-2020 :** Teaching assistant at University of Science of Tunis Probability, Complex Analysis.
- **2018-2019 :** Teaching at University of Carthage, School of Statistics and Information Analysis, Tunis, Calculus of variations , Differential calculation and convex optimization
- **2017-2018 :** Teaching at University of Carthage, School of Statistics and Information Analysis, Tunis, Calculus of variations

### *Selected Seminars and Talks*

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- Attended to the Summer school and workshop “Stochastic in Fluids”, held in Prague on August 21-25, 2023 and participated in poster session “Analysis of a system modeling the interaction between the motion of a spring and viscous gaz”.
- Participated in the Kick-Off-Meeting heiAIMS Heidelberg, July 10-12, 2023 with the AIMS member and I presented a scope about my research activities. (find attached the Info-Sheet-Kick Off heiAIMS23).
- Participated in AI Center Inaugural symposium poster session on 18th July 2023
- 23 March 2023: Attending the workshop “Women in Mathematics and its Applications Research Day” at AIMS, South Africa with presentation (find attached the program and the abstract of my talk )
- Organize” the IWR-AIMS International Mathematics Day activity at AIMS” as a collaboration with the Heidelberg University
- Online participation in The CIMPA school on Mathematical and Statistical Methods for Data Science that will be held at AIMS Cape Town. <https://aims.ac.za/event/cimpa-school-mathematical-and-statistical-methods-for-data-science/>
- Attend to Winter School on Control, Stability and Singularity Formation in Nonlinear PDEs Hammamet, December 12-15, 2022, <http://www.tms.rnu.tn/cv/cssf2022.pdf>
- WORKSHOP ”AGAINST THE FLOW” Bedlewo, (October 18-22,2022).
- Member of organizing committee of mathematic PhD Seminar at the Faculty of sciences of Tunis, Department of Mathematics, (2018-2019)
- Seminar at University of Amiens, France.(2019)
- Participated in CIMPA School at Hammamet, (Tunis), ”Control, Inverse Problem and Geometry”
- Participated in 23rd SMT CSMT (2018) Symposium in Tabarka, (Tunis).

- Attended to the international Conference ICAAM on Advances in Applied Mathematic and presented on oral contribution sousse, Tunis (2018).
- Seminar at University of Amiens, France. Attended to the Workshop “The REELCOOP – EU-ROSUNMED joint Workshop “Renewable Electricity Generation: contribution and demonstrations”.(2018)
- Attended the Workshop ”Career Building Workshops for STEM Scientists” ,(2017). (Tunis).
- Participated in the Summer School, proposed by the EDP laboratory at the Faculty of Sciences of Tunis El Manar.(Tunis), (2017).
- Participated in Summer School in Sinaia, Roumania (2017). University Bucharest. Title : ”Modeling of crystal deformation Self-similar processes.

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### *Research visits*

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- May-Juliet 2018 : Visiting researcher (2 months) at Picardie Jules Verne University.
- Juin-August 2019: Visiting researcher (2 months) at Picardie Jules Verne University.
- April 2022: Visiting researcher (2 Weeks) at the Institute of Mathematics of the Academy of Sciences of the Czech Republic.
- September-November 2022: Visiting researcher (3 months) at the Institute of Mathematics of the Academy of Sciences of the Czech Republic.

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### *SKILLS*

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<b>Programming Languages/Tools</b>	Matlab, Python and Freefem++, $\text{\LaTeX}$
<b>Arabic</b>	Native
<b>English</b>	Speaking, reading and writing.
<b>French</b>	Fluently
<b>German</b>	beginner.

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### *References*

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- Departement of Mathematic, Faculty of Sciences, Tunis. mahamoud@indiana.edu
- Departement of Mathematic, Faculty of Sciences, Tunis. ahmed.bchatnia@fst.utm.tn
- The Institute of Mathematics of the Academy of Sciences of the Czech Republic, matus@math.cas.cz
- AIMS, South Africa, bubacarr@aims.ac.za