

## Ph.D Position Project EIPHI GS TACTICQ

Job title	PhD Position in Mathematics
Job type (PhD, Post-doc, Engineer)	PhD
Contract duration (months)	36months
Qualifications (Master, Ph.D ...)	Master
Job hours (full time/ part time)	Full Time
Employer	UBFC Université Bourgogne Franche-Comté
Financing Institutions	Région Bourgogne Franche-Comté & Graduate School EIPHI
Host Laboratory	Institut de Mathématiques de Bourgogne
URL Host Laboratory	<a href="https://math.u-bourgogne.fr/">https://math.u-bourgogne.fr/</a>
Address Host Laboratory	IMB, 9 avenue Alain Savary BP 47870 21078 Dijon Cedex
Job description	<p>Thesis subject: Dynamics of groups in a complex setting.</p> <p>During the last decades, complex dynamics in several variable was a very active field of research, at the interplay of ergodic theory, complex geometry and pluripotential theory. However, little is known about holomorphic actions of more general groups. In that direction, Cantat and Rebelo-Roeder showed that these group dynamics are related to character varieties and to the dynamics of Painlevé VI equation. In a different direction, Cantat-Dujardin obtain a very nice classification of stationary measures for groups acting on algebraic real surfaces with strong results in the complex setting.</p> <p>The aim of this thesis is to continue the study of holomorphic group actions with a special emphasis on pluripotential theory and bifurcation theory.</p>
Supervisor(s)	Johan Taflin ( <a href="mailto:johan.taflin@u-bourgogne.fr">johan.taflin@u-bourgogne.fr</a> ) Michele Triestino ( <a href="mailto:michele.triestino@u-bourgogne.fr">michele.triestino@u-bourgogne.fr</a> )
Candidate profile	The candidates are expected to hold a Master Degree by the start of the position and to have a good knowledge in complex analysis, dynamical systems and geometric group theory.
Keywords	Random products of matrices, ergodic theory, complex analysis, group theory.
Application deadline	June 1 <sup>st</sup> 2022
Application Depending on the type of position	<p>Please send the following documents (all in one PDF file) by e-mail to Johan Taflin <a href="mailto:johan.taflin@u-bourgogne.fr">johan.taflin@u-bourgogne.fr</a> :</p> <ol style="list-style-type: none"> <li>1) For EU candidates: Copy of your national ID card or of your passport page where your photo is printed. For non-EU candidates: Copy of your passport page where your photo is printed.</li> <li>2) Curriculum Vitae.</li> <li>3) Letter of motivation relatively to the position (Cover Letter)</li> <li>4) Copy of your Master degree if already available.</li> <li>5) Coordinates of reference persons (maximum 3, at least</li> </ol>

	<p>your master thesis supervisor): Title, Name, organization, e-mail.</p> <p>If you have questions regarding the application, please contact the supervisor.</p>
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