Benjamin LLEDOS

Université Catholique de Louvain

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WORKING EXPERIENCE

IMT, Toulouse, France   *September 2020 – August 2023*

PhD thesis under the supervision of Pierre Bousquet.

Subject : "Propriétés qualitatives de solutions de problèmes dégénérés et singuliers en Calcul des Variations"

UC Louvain, Louvain-la-Neuve, Belgium   *September 2023 – Current*

Post-doc under the supervision of Heiner Olbermann: "Variational problems for curved surfaces".

Subject: Gamma convergence, currents

PUBLICATIONS

A uniqueness result for a translation invariant problem in the Calculus of Variations *2022, accepted by the Journal of Convex Analysis.*

A uniqueness result for a non-strictly convex problem in the Calculus of Variations *2023, accepted by ESAIM: COCV.*

A uniqueness result for a two-dimensional variational problem *2022, submitted.*

Regularity of the stress field for degenerate and/or singular elliptic problems 2023, submitted.

EDUCATION AND DEGREES

Université Paul Sabatier, Toulouse, France   *September 2019 - June 2020*

Second year of master's in Research & Innovation, graduated with high Honors.

Université Paul Sabatier, Toulouse, France   *September 2018 - June 2019*

Preparation for the French Agregation (highest French teaching degree). Major: Scientific Calculus. Rank: 76

Université Paul Sabatier, Toulouse, France   *September 2017 - June 2018*

First year of Master's in "Enseignement supérieur et recherche", graduated with Honors.

Université Paul Sabatier, Toulouse, France   *September 2014 - June 2017*

Three years of Bachelor's degree, graduated with Honors.

TALKS AND CONFERENCES

Université de Toulouse III, Toulouse, France *Presentation at the Phd-PDE seminar*	February 2021
CIRM, Marseille, France **Virtual research school, Shape Optimization, Spectral Geometry and Calculus of Variations. Presentation of open questions.**	29 March- 2 April 2021
Université de Lorraine, Nancy, France *Rencontre en Calcul des Variations à Nancy* *Presentation of the article "A uniqueness result for a translation invariant problem in the Calculus of Variations ".*	*8-10 December 2021*
Université de Toulouse III, Toulouse, France *Presentation at the Analysis seminar*	*19 September 2022*
University of Warsaw, Poland *Presentation at the Seminar of mathematical physics equations group.*	25 May 2023
Université de Toulouse III, Toulouse, France *Presentation at the Phd-PDE seminar*	6 July 2023
Université catholique de Louvain-la-Neuve, Louvain-la-Neuve, Belgium *Presentation at the Analysis-PDE seminar*	17 October 2023

RELEVANT EXPERIENCE

INSTITUT MATHEMATIQUES DE TOULOUSE, Toulouse, France Internship under the supervision of Prof. Pierre Bousquet Introduction to the Calculus of Variations.	*March- June 2020*
INSTITUT MATHEMATIQUES DE TOULOUSE, Toulouse, France Internship on the Beltrami equation supervised by Prof. Jean-Pierre Otal.	*February - June 2018*
INSTITUT MATHEMATIQUES DE TOULOUSE, Toulouse, France Internship on ODE's under the supervision of Prof. Grégory Faye.	*February - June 2017*

TEACHING

Université Paul Sabatier, Toulouse, France *September 2020- June 2021*
60h of tutorials, mathematics, first year of Bsc.

Université Paul Sabatier, Toulouse, France *September 2021 - June 2022*
66h of tutorials, mathematics, first year of Bsc.

Université Paul Sabatier Toulouse, France *September 2022 - June 2023*
58h of tutorials, mathematics, first year of Bsc and 8h of practical works (Python), first year of Bsc.

Université Paul Sabatier, Toulouse, France *2018-2021*
4h of oral exam, mathematics, third year of Bsc.