


André HARNIST

PhD student in Mathematics and modeling

 University of Montpellier
IMAG laboratory
ACSIOM team

 andreharnist.fr

 andre.harnist@umontpellier.fr

Education

since 2018	PhD in Mathematics and modeling Title: <i>Hybrid High-Order methods for complex problems in fluid mechanics</i> Topics: PDEs analysis, Numerical analysis, Fluid mechanics Keywords: HHO methods, Navier–Stokes, Non-Newtonian fluids, Leray–Lions Director: Daniele A. Di Pietro Courses: Training to teach in higher education (82h) XXI Louis Antoine Numerical Analysis day at Rennes	Montpellier France
2016 – 2018	Master’s degree in Mathematics MANU (Modelization and numerical analysis of PDEs), <i>with distinction « Très Bien »</i>	Montpellier France
2013 – 2016	Bachelor’s degree in Mathematics Research option, <i>with distinction « Bien »</i>	La Rochelle France
2013	Baccalaureate STL (Laboratory Sciences and Technologies) option, <i>with distinction « Assez Bien »</i>	Niort France

Publications

Dec 2020	Improved error estimates for Hybrid High-Order discretizations of Leray–Lions problems D. A. Di Pietro, J. Droniou, and A. Harnist Calcolo, 2021 – Accepted for publication HAL preprint hal-03049154 arXiv preprint 2012.05122	
Mar 2020	A Hybrid High-Order method for creeping flows of non-Newtonian fluids M. Botti, D. Castanon Quiroz, D. A. Di Pietro, and A. Harnist Submitted HAL preprint hal-02519233 arXiv preprint 2003.13467	

Presentations

Jul 2021	6th ECCOMAS Young Investigators Conference – Online talk <i>Improved error estimates for Hybrid High-Order discretizations of Leray-Lions problems</i>	Valencia Spain
Apr 2021	SERENA seminar – Online talk <i>Improved error estimates for Hybrid High-Order discretizations of Leray-Lions problems</i>	Paris France
Feb 2021	ANZIAM Annual Conference 2021 – Online talk <i>Improved error estimates for Hybrid High-Order discretizations of Leray-Lions problems</i>	Melbourne Australia
Jan 2021	Eccomas Congress 2020 & 14th WCCM – Online talk <i>A HHO method for creeping flows of non-Newtonian fluids</i>	Paris France
Sep 2020	Conference on Scientific Computing Algorithmy 2020 – Online talk <i>A HHO method for creeping flows of non-Newtonian fluids</i>	Podbanske Slovakia
Mar 2020	PhD students day at IMAG – Talk <i>A HHO method for creeping flows of non-Newtonian fluids</i>	Montpellier France
Jul 2019	Doctiss 2019 day at i2S – Poster, <i>1st price obtained</i> <i>A HHO method for creeping flows of non-Newtonian fluids</i>	Montpellier France
May 2019	POEMS 2019 conference at CIRM – Poster <i>A HHO method for creeping flows of non-Newtonian fluids</i>	Marseille France

Teaching

2020 – 2021	Mathematics of decision – 3rd year degree Person in charge (Lecture, Tutorial, Exam), 64h	Montpellier France
2019 – 2020	Analysis and algebra 2 (HLMA206Y) – 1st year degree Tutorial classes, 24h	Montpellier France
	Analysis and algebra 1 (HLMA101) – 1st year degree Tutorial classes, 42h	
2018 – 2019	Analysis and algebra 2 (HLMA206Y) – 1st year degree Tutorial classes, 42h	Montpellier France
	Numerical analysis (HLMA405) – 2nd year degree Tutorial classes, 10h	
	Introduction to scientific software (HLMA310) – 2nd year degree Tutorial classes, 12h	

