GIOVANNI TEDESCHI PRADES

- Status: PhD student at the Ludwig Maximilian University of Munich
- Birth date: 27/12/1998
- Nationalities: Italian, Spanish
- Mail address: giov.tedeschi@gmail.com
- Github: https://github.com/Giovanni-Tedeschi
- > Website: https://giovanni-tedeschi.github.io/



>>>> Education			
09/2022 - Current	PhD student in Physics	- International Max Plank Research School Ludwig Maximilian University of Munich	
	ical simulation code OpenGadget3.	ne-Fluid model for dust dynamics in the hydrodynar el; Dr. Klaus Dolag; Prof. Dr. Barbara Ercolano.	
11/2020 - 08/2022	MSc in Physics with Specialization i	in Astrophysics Ludwig Maximiliar University of Munich	
	 Master thesis: Simulating the Ver PLUTO and OpenGadget3. Credits: 120 ECTS - Final grade: 1.0 	ertical Shear Instability in Protoplanetary Disks wi 08.	
10/2017 - 09/2020	BSc in Physics	"Sapienza" University of Rome	
	 Bachelor thesis: Two possible development of the radiative wave. Credits: 180 ECTS - Final grade: 110 	velopments of the Sedov-Taylor shock wave: the rel	
>>> Papers			

- G. Tedeschi Prades, T. Birnstiel, K. Dolag, B. Ercolano, M. Hutchison, "Modeling dust dynamics in OpenGadget3. I. SPH implementation of the One-Fluid model.", *Astronomy & Astrophysics* (subm., available at this link)
- G. Tedeschi Prades, T. Birnstiel, K. Dolag, B. Ercolano, M. Hutchison, "Modeling dust dynamics in OpenGadget3. II. MFM implementation for multiple grain sizes." (in prep.)

Conferences and workshops			
12/2024	Evolution of Dust and Gas throughout Cosmic Time	Hiroshima	
	Presented a poster on my PhD research work on dust dynamics		
11/2024	18th IMPRS Symposium	Munich	
	Presented my talk on "Modelling dust dynamics in SPH and MFM hy ulations"	vdrodynamical sim-	
07/2024	Course in Computing and HPC for Astrophysics	INAF - Bologna	
	Attended a two weeks workshop on High Performance Computing		

02/2024	The Physics of Star Formation	Les Houches School of Physics		
	Attended a two weeks workshop on star	formation		
09/2023	Origin and Fate of Dust in our Universe	Chalmers conference center - Goteborg		
	Presented a poster on my PhD research	work on dust dynamics		
07/2023	Life Cycle of Dust	Institute of Space Sciences - Barcelona		
	Attended a two weeks workshop on inter	rstellar dust		
>>>> Teaching				
10/2024	Hydrodynamics	Dr. Klaus Dolag		
	I have given a tutorial on simulating a free-	-fall collapse with hydrodynamical simulations.		
11/2024	Protoplanetary Disks and Planet Formatio	Prof. Dr. Til Birnstiel		
	I have given one of the tutorials of the co	purse.		
Mards				
06/2020	Study Scholarships - Master Studies for A	Study Scholarships - Master Studies for All Academic Disciplines		
	Awarding Institution: DAAD			
XXX Language S	ikills			
	Mother tongues			
	ItalianSpanish			
	Other languages			
	English - C2German - A1			
>>> Digital Skills	S			
	Programming Languages - Advanced			
	C C++ Python OpenMP MPI OpenAC	C C++ Python OpenMP MPI OpenACC		
	Programming Languages - Intermediate	Programming Languages - Intermediate		
	R Fortran			
	Programming Languages - Basic	Programming Languages - Basic		
	HTML CUDA			
	Machine Learning			
	Tensorflow PCA k-means Random Fo	Tensorflow PCA k-means Random Forests CNNs RNNs GANs VAEs		
	Quantum Computing	Quantum Computing		
	> Qiskit			

	Operative Systems	
	Linux Windows MacOS	
	Various Software	
	LaTeX Microsof Suite Audacity MuseScore 3	
>>> Projects		
02/2020 - Current	Web Search Engine development and manteinance for the ATLIS archive	
	I developed and maintaining a Web Search Engine for the ATLIS (Archivio delle Traduzioni di Letteratura Ispanoamericana in Italia) archive, which can be consulted at this link.	