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	Ludwig Maximilian University of Munich
	 PhD project: Implementing the One-Fluid model for dust dynamics in the hydrodynamical simulation code OpenGadget3. Supervised by: Prof. Dr. Til Birnstiel; Dr. Klaus Dolag; Prof. Dr. Barbara Ercolano. 	
11/2020 - 08/2022	MSc in Physics with Specialization in Astrophysics	Ludwig Maximilian University of Munich
	 Master thesis: Simulating the Vertical Shear Instability PLUTO and OpenGadget3. Credits: 120 ECTS - Final grade: 1.08. 	y in Protoplanetary Disks with
10/2017 - 09/2020	BSc in Physics	"Sapienza" University of Rome
	 Bachelor thesis: Two possible developments of the Sedd tivistic and the radiative wave. Credits: 180 ECTS - Final grade: 110 with honors / 110. 	ov-Taylor shock wave: the rela-

>>> 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.)
- 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 Cos	mic Time Hiroshima	
	Presented a poster on my PhD research v	work on dust dynamics	
07/2024	Course in Computing and HPC for Astroph	ysics INAF - Bologna	
	Attended a two weeks workshop on High	n 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 worksh	nop on interstellar dust	
Awards			
06/2020	Study Scholarships - Master Studies for All Academic Disciplines		
	➤ Awarding Institution: DAAD		
Language Skills	;		
	Mother tongues		
	ItalianSpanish		
	<u> </u>		
	Other languages		
	English - C2German - A1		
Digital Skills			
	Programming Languages - Adv	anced	
	C C++ Python OpenMP MF	PI OpenACC	
	Programming Languages - Intermediate		
	➤ R Fortran		
	Programming Languages - Bas	ic	
	▶ HTML CUDA		
	Machine Learning		
	▶ Tensorflow PCA k-means F	Random Forests CNNs RNNs GANs VAEs	
	Quantum Computing		
	▶ Qiskit		
	Operative Systems		
	▶ Linux Windows MacOS		
	Various Software		
	▶ LaTeX Microsof Suite Audac	ity MuseScore 3	
>>> Projects			
02/2020 - Current	Web Search Engine developme	ent and manteinance for the ATLIS archive	
		ng a Web Search Engine for the ATLIS (Archivio de americana in Italia) archive, which can be consulted at the	

link.