

## Unit Name

Fluid Mechanics Unit

## Collaborations

Gustavo Gioia, OIST, Japan, Turbulent Taylor-Couette flows  
Marco Edoardo Rosti, OIST, Japan, Turbulent Rayleigh-Taylor instability  
Gustavo Gioia, OIST, Japan, Turbulent Rayleigh-Taylor instability  
Gustavo Gioia, OIST, Japan, Theory of spectral link in turbulent flows

## Research Personnel

Tapan Sabuwala, Senior Staff Scientist  
Julio Manuel Barros Junior, Staff Scientist  
Chola Kalale, Postdoctoral Scholar  
Vishnu Ravindran, Postdoctoral Scholar  
Yajun Fan, Postdoctoral Scholar  
Christian Butcher, Research Unit Technician  
Daniel Isokpunwu, Research Unit Technician  
Hanley Andrean, PhD Student

## Scholarly Contributions and Creative Productions (by Faculty)

### Journal Article

1. Chakraborty, Pinaki, Christian Butcher, Julio Manuel Barros, Yasuo Higashi, Tinihau Meuel, Henly Ng, and Gustavo Gioia. 2024. "Okinawa Institute of Science and Technology – Taylor–Couette (OIST-TC): A New Experimental Set-up to Study Turbulent Taylor–Couette Flow." Flow 4 (October):E30.

## Scholarly Contributions (by Unit Members)

Name of Unit Member	Type	Title	Outlet	Publisher	Year Pub
Ravindran Vishnu	Poster Presentation at Conference	Finite Amplitude Scaling in Transitional Pipe Flows	IUTAM Symposium on Laminar-Turbulent Transition, Nagano, Japan	IUTAM Symposium on Laminar-Turbulent Transition, Nagano, Japan	2024
Ravindran Vishnu	Poster Presentation at Conference	Finite Amplitude Scaling in Transitional Pipe Flows	Current Advances in Turbulence and multiphase flowS - 24CATS, OIST, Okinawa, Japan	Current Advances in Turbulence and multiphase flowS - 24CATS, OIST, Okinawa, Japan	2024

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Ravindran Vishnu	Presentation at Conference	Understanding the scaling exponents in transitional pipe flows	77th Annual Meeting of the APS Division of Fluid Dynamics, Salt Lake City, USA	77th Annual Meeting of the APS Division of Fluid Dynamics, Salt Lake City, USA	2024
Hanley Andrean	Presentation at Conference	The double-edged sword of using simple physics model to understand the decay of a landfalling typhoon	Japan Society of Fluid Mechanics annual meeting 2024	Japan Society of Fluid Mechanics annual meeting 2024	2024
Hanley Andrean	Presentation at Conference	The double-edged sword of using simple physics model to understand the decay of a landfalling typhoon	Current Advances in Turbulence and multiphase flowS - 24CATS	Current Advances in Turbulence and multiphase flowS - 24CATS	2024

***Workshops and Seminars (Organized and Hosted by Faculty/Units)***

Speaker Name(s)	Title	Location	Date
Yasushi Takeda	On Symmetry breaking in Taylor-Couette System	OIST	2024-07-22
Michael D. Graham	Data, dynamics, and manifolds: machine learning approaches for modeling and controlling complex flows	OIST	2024-07-04
Eckart Meiburg	Fluid Mechanics of the Dead Sea	OIST	2024-07-02