Peter Tsun Ho Pang

Research interest

Gravitational-wave data analysis and astrophysics
Multi-messenger astronomy
Test of general relativity
Interdisciplinary study on nuclear physics

Professional experience

2023 - Pres.	**Postdoctoral Researcher**	Utrecht University
2022 - 2023	**Data Scientist**	ABN AMRO Bank N.V.

Education

2018 - 2022	**Ph.D. in Physics** Supervisor: Prof. Dr. Chris Van Den Broeck	Utrecht University
2016 - 2018	**M.Phil. in Physics** Supervisor: Prof. Dr. Tjonnie G. F. Li	The Chinese University of Hong Kong
2012 - 2016	**B.Sc. in Physics – First class honours**	The Chinese University of Hong Kong

Fellowships and grants

2025 - 2027	Croucher Postdoctoral Fellowship	165k USD	PI	Offer declined
2024 - 2027	NWO Veni Fellowship	315k EUR	PI	
2024 - 2027	NSF-DFG Funding Opportunity for Collaborations in Physics	300k EUR +231k USD	Co-author	
2023 - 2024	Computational grant at SURF	1.0 Mio CPUh	PI	
2021 - 2023	Gauss computation allocation	44.1Mio CPUh	Co-author	

Prizes

2023 Committee of Astroparticle Physics in the Netherlands (CAN) Thesis Prize
2018 The Chinese University of Hong Kong Physics Teaching Assistant Award

Publication summary (from `inspirehep.net` on 21-10-2024)

	Excluding all LVK papers	Including LVK papers with major contribution	All citable papers
Number of papers:	**36**	**39**	**151**
Number of citations:	**1,593**	**3,673**	**55,142**
Average citations per paper :	**44.3**	**94.2**	**365.2**
h-index:	**18**	**21**	**72**

Key publications

P. T. H. Pang, et al. (2023). ***Nature Communications*** **14.1, p. 8352**
— Advanced multi-messenger analysis software for binary neutron star mergers
— Integrated into Zwicky Transient Facility's online search pipeline ZTFReST

S. Huth and P. T. H. Pang et al. (2022). ***Nature*** **606, pp. 276–280**
— Joint-first authorship; State-of-the-art constraint on nuclear equation of state by combining multi-messenger astronomical observations & terrestrial heavy ion collision data

T. Dietrich et al. (2020). ***Science*** **370.6523, pp. 1450–1453**
— Lead analyst; State-of-the-art constraint on nuclear equation of state with multi-messenger astronomical observations at the time and estimation of the Hubble constant

LIGO Scientific and Virgo Collaborations (2021). ***Phys. Rev. D*** **103.12, p. 122002**
— Person-in-charge of sections VA and VII; LVK collaboration paper on testing general relativity

Referee for scientific journals

2024 - Pres. Journal of Cosmology and Astroparticle Physics
2024 - Pres. Nature
2023 - Pres. Physical Review C
2023 - Pres. Monthly Notices of the Royal Astronomical Society
2022 - Pres. Physical Review D

Daily supervision

2024 - Pres.	Frank Snijder	Bachelor	
2024	Marlinde Drent	Bachelor	
2024	Tom Oeloff	Bachelor	
2023 - Pres.	Thibeau Wouters	Ph.D.	
2023 - Pres.	Hauke Koehn	Ph.D.	
2023 - Pres.	Sahil Jhawar	Master	
2021 - Pres.	Nina Kunert	Ph.D.	
2021 - 2023	Henrik Rose	Master	Now Ph.D. student at University of Potsdam
2020	Thomas Spieksma	Bachelor	Now Ph.D. student at Niels Bohr Institute winner of best B.Sc. thesis in physics award 2020
2019 - 2020	Adriaan Hengeveld	Master	Now Radiation scientist at RIVM
2019	Yasmeen Asali	Bachelor	Now Ph.D. student at Yale University

Courses tutored

2022	Master-level	Gravitational waves	University of Amsterdam
2021	Bachelor-level	Quantum mechanics	Utrecht University
2021	Master-level	Gravitational waves	University of Amsterdam
2020	Bachelor-level	Quantum mechanics	Utrecht University
2019	Master-level	Gravitational waves	University of Groningen
2017	Bachelor-level	Electromagnetic theory I	The Chinese University of Hong Kong
2017	Bachelor-level	Introduction to mechanics, fluids & waves	The Chinese University of Hong Kong
2016	Bachelor-level	Electromagnetic theory I	The Chinese University of Hong Kong

Invited summer school teachings

2023	Department of Physics, The Chinese University of Hong Kong
2023	Zwicky Transient Facility (ZTF)

Invited colloquia

2024	University of Groningen	Groningen, The Netherlands
2024	Johns Hopkins University	Baltimore, USA
2024	Niels Bohr Institute	Copenhagen, Denmark
2023	The Chinese University of Hong Kong	Hong Kong
2023	University of Potsdam	Potsdam, Germany
2023	KU Leuven	Leuven, Belgium
2018	Johns Hopkins University	Baltimore, USA

Major collaborations

2023 - Pres.	Einstein Telescope Collaboration
2016 - Pres.	LIGO Scientific - Virgo - KAGRA Collaboration

Management tasks

2024 - Pres.	Coordinator of eXtreme Matter in eXtreme Stars workshop white paper Gravitational-wave chapter
2023 - Pres.	Coordinator of Einstein Telescope blue book Division 5 chapter
2023 - Pres.	Committee member of the Nikhef Junior Colloquium
2023 - Pres.	Member of the Einstein Telescope Collaboration
2021 - 2022	Person-in-charge of sections in LVK testing general relativity papers
2019 - 2022	Maintainer of the testing general relativity pipeline TIGER in LVK
2016 - Pres.	Member of the LIGO Scientific - Virgo - KAGRA Collaboration (LVK)

Public outreaches

— Featured on “Jong Talent” in the Dutch New Scientist’s black hole special issue

— Interviewed by Dutch New Scientist and Physics Today for my publications

— Publications covered by international press, e.g., Forbes