Joonas Nättilä

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Sex: Male Nordita

Born: June 25th, 1989, Tornio, Finland Roslagstullsbacken 17 Nationality: Finnish citizen SE-10691, Sweden

Languages: Finnish (native), English, Swedish

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http://natj.github.io

Research interests

High-energy astrophysics: accretion (accretion disks); compact objects (neutron stars, black holes)

Nuclear physics: equation of state of cold ultra-dense matter

General relativity: ray tracing

Statistics: Bayesian inference; Monte Carlo methods

Employment

2018 –2019 | Nordita Fellow, Nordita, Stockholm, Sweden.

Education

2014 – 2017	Ph.D. in Astrophysics (with honours), University of Turku, Finland.
	Supervisor: Prof. Juri Poutanen, Director of Tuorla Observatory.
	Title: X-ray bursts as a tool to constrain the equation of state of the ultra-dense matter inside neutron stars
2012-2013	M.Sc. in Astronomy, University of Oulu, Finland.
2008-2012	B.Sc. in Physics, University of Oulu, Finland.

Awards & Recognitions

2018	Turku Finnish University Society Prize for best doctoral dissertation
2018	Väisälä Prize 2018: Prize for outstanding thesis in Astronomy
2018	PCS Best Doctoral Thesis of 2017 Prize
2016	Nordita Visiting Ph.D. Fellow

Presentations & Talks (selected)

2018	Astroplasmas: Particle acceleration and transport, Rende, Italy.
2018	Invited: Time for Accretion, Sigtuna, Sweden.
2018	Astroplasmas seminar, Princeton, USA.
2018	Invited: Fire and Ice: Hot QCD meets cold and dense matter, Saariselkä, Finland.
2017	Invited: Holographic dense QCD and neutron stars, ENS, Paris, France.
2016	Invited: From quarks to gravitational waves, CERN.
2016	Invited: JINA-CEE Symposium: Neutron Stars in the Multi-Messenger Era, Ohio, USA.

In total 7 invited, 19 contributed.

Professional Societies and Services

2018-	IAU Junior member
2016-	eXTP Dense Matter science working group
2015-	ESA XIPE satellite Science Team (SWG2.2 Accreting Millisecond Pulsars)
2013-	Member of JuliaLang organization (Open source community for Julia programming language)
2012 -	Member of Finnish Astronomical Society

In addition, referee for Monthly Notices of the Royal Astronomical Society and Astronomy & Astrophysics since 2016.

Public outreach

My research has been presented in various local (Finnish) media: tiedetuubi.fi (30.11.2016), Turun Sanomat (10.11.2017), Turkulainen (10.11.2017), Tähdet & Avaruus (25.11.2017), Aamuset (8.12.2017), Tekniikka & Talous (8.12.2017), Verkkouutiset (8.12.2017); And in international media: Cosmos 27.11.2017.